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B. R. BUCKINGHAM, Editor

No. 3

# The Iowa Spelling Scales

## Their Derivation, Uses, and Limitations

ERNEST J. ASHBAUGH

Professor of School Administration

and

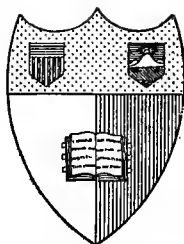
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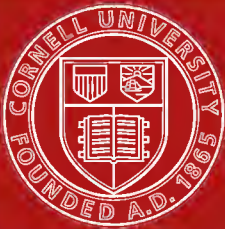
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June, 1922

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## **ACKNOWLEDGMENTS**

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I wish to thank the superintendents, teachers and pupils who gave so freely of their time and effort in securing the spellings and also the Dean of the Graduate College and the Director of the Extension Division who financed from their budgets the collection and scoring of the data.

Acknowledgments are also made to Dean Russell, Associate Professor Lewis, and Dr. Harry A. Greene for their sympathetic counsel and assistance throughout the progress of the study.

E. J. A.

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## INTRODUCTION

The Iowa Spelling Scales have been extensively used. The relatively large number of words included in them and their freedom from excessive statistical manipulation have rightly commended them to practical workers. They have, however, been out of print for some time. Moreover, even those who are fortunate enough to possess the scales in their original form no doubt realize that they are capable of a more useful presentation.

Accordingly this monograph is offered for those who desire a complete representation of the scale in permanent form. The percents of correct spellings in each grade are given for each of the nearly 3,000 words of the scale. Nowhere else has such a detailed showing of the difficulty of the spelling of words been made.

An account is also given of the derivation of the scale; and this is no inconsiderable contribution. The reader will no doubt be impressed by the author's scientific attitude and by his unwillingness to compromise with his ideals of accuracy through adopting all-too-prevalent devices for smoothing out difficulties and then pretending that such difficulties do not exist.

We are glad to observe the position which Doctor Ashbaugh takes on the question of the degree of difficulty of the words which constitute the best testing material. In substance he says that the nearer they are to 50 percent accuracy for the grade in question the better. There has been a strong tendency among users of spelling tests to select words which were much too easy. This tendency has been fostered partly by the fact that the Ayres Scale lists for each grade only the words spelled by 50 percent or more of the children, and partly by the naive desire to see larger figures. Somehow one thinks more highly of a class average of 87 than of one of 46, although the latter may indicate a better performance.

The publication of the Iowa Spelling Scales in this form will place at the disposal of school people a far larger number of evaluated words than have hitherto been generally available. This richness of material will greatly enhance the usefulness of the scale. Duplicate lists can easily be made, and a prolonged program of testing can be carried on without the necessity of making allowance for practice effects. Moreover, the fact that the words of the scale are selected on the basis of frequency of use in correspondence renders the material particularly appropriate for teaching and drill purposes. In fact as a spelling book this monograph has high value. The appropriateness of the words is assured because of their frequent use in correspondence—that is, in the only situation where spelling ability is sure to be required—while the known difficulty of the words permits intelligent grading and distinctions in teaching emphasis.

B. R. BUCKINGHAM, *Editor*.



## SECTION I

### INTRODUCTION

#### FIELDS OF EXPERIMENTAL PEDAGOGY

The last two decades have witnessed a large amount of work in the field of experimental pedagogy. This has principally followed three general lines, namely, (1) the selection of subject matter, (2) the determination of efficient methods of teaching or learning, and (3) the formulation of more or less objective measures for checking the results.

The Committee on Economy of Time of the National Education Association through its three reports (1) has done a large amount of work in the selection of subject matter. These reports have challenged the attention of superintendents and the recommendations have been written into numerous courses of study. State Teachers' Associations have taken up the work; their committees have attacked the problem and in many cases have added something to this re-direction of education.

The determination of efficient methods of teaching and learning has appealed to psychologists and teachers. In laboratories and experimental schools much time and effort has been spent in gathering bit by bit the evidence for the different subjects. The experimental evidence in reading, writing, spelling, arithmetic, drawing, and music, and such conclusions as are warranted thereby, have been collected from the various schools and are presented by another committee in the Eighteenth Yearbook. (2) Further consideration will not be given to this field since it is not pertinent to the research in this monograph.

The effort in the third line has brought forth the large number of scales and tests now available. The measurement of progress requires an accurate means of measuring initial status. The comparison of one class with another, or of one school system with another, especially when the testing must be done by different persons, also requires a measuring instrument little influenced by different personalities. One of the goals of the makers of standardized tests and scales has been to obtain an objective measuring instrument as little disturbed as possible by the individual using it.

Perhaps in no subject has there been more experimental work done than in spelling. The subject lends itself to careful study in the fields already designated. The investigations which we wish to review briefly as an introduction to the present study have dealt with two problems: (1) the determination of the vocab-

ing ability. These forty-nine range from a frequency of forty-two errors to zero. Unfortunately, the table does not give the total number of children attempting the test, so it cannot be placed on a percentage basis.

The reader's attention is called to Table II. This table gives the frequency of error of fifth-grade children on five of Dr. Rice's words as found by Thorndike and the percent of error of fifth-grade children on the same words as shown by the Ayres scale and the present study.

TABLE II. DIFFERENCE IN DIFFICULTY OF FIVE WORDS REGARDED BY DR. RICE AS OF EQUAL DIFFICULTY.

Word	Frequency of Error Grade V—Thorndike	Percentage of Error Grade V—Ayres	Percentage of Error Grade V—Ashbaugh
necessary	42	58	77
disappoint	37	79	64
learn	3	12	14
because	1	6	6
picture	0	8	5

#### STUDIES IN DERIVATION OF SCALES

The studies intended to evaluate the words to be used in measuring spelling ability have been but two in number previous to this monograph.

*Buckingham.* (19) In 1913, Buckingham presented the educational world with the first spelling scale. He did preliminary testing with a list of 270 words selected from a much larger list of graded words used by the author in his own school. These had been selected by taking from five of the popular spelling books then in use, a vocabulary of 5,000 words agreed upon by two or more of the books, and then following two principles: (1) "that all of them should be sufficiently common to be in the speaking vocabulary of third-grade children," and (2) "that the spelling difficulty of many of them should be great enough to test the ability of eighth-grade children." (20)

These words were placed in sentences and dictated to grades three to eight. On the basis of the results, a group of 100 words were chosen which in general showed the following characteristics: (1) That the word was not so difficult that it offered no test of third-grade ability. (2) That it showed a steady increase through the following grades but did not reach so high a figure in the highest grades as to prevent its being a test of ability there.

These words were placed in sentences and their difficulty determined by additional testing. By this process he finally arrived at a first and a second preferred list of 25 words each. In order

to get a measure of zero ability, an easy list of fifty words was devised. These words were then evaluated with a high degree of precision and were presented for testing purposes in the form of ten-, twenty-five-, and fifty-word scales.

The small number of words limits the usefulness of the scale since the entire list can be quickly learned to 100 percent median accuracy by a class of ordinary ability in the upper grades. The study is of great interest to advanced students of education because of the great refinement of method. It is doubtful, however, if the high degree of refinement adds anything to the value of the scale for practical use by teachers, principals, and superintendents in the field.

Ayres. (21) Probably the most advanced step in spelling measurement was taken by Ayres in 1915 in presenting his Measuring Scale for Ability in Spelling. The 1,000 words in this scale were secured by combining "the results of the several studies so as to secure the most reliable list as a foundation for the work." (22) The placing of the "one thousand commonest words" in the measuring scale assumes that children should be taught and be able to spell these "commonest words" even though they are unable to spell other words. With this assumption we agree.

Two criticisms will be offered concerning the selection of the words:

1. The list is a hybrid since it is made up by combining correspondence frequencies with newspaper and literary frequencies. A comparison of these 1,000 words with the most extensive studies of correspondence reveals 33 words which never occur in these correspondence lists, and 71 others which do not occur in the 3,000 words of greatest frequency. Such words as: arrest, convict, capture, estate, jail, mayor, police, testimony, victim, and witness, occur frequently in newspapers but only a few people ever have any occasion to write them. Why then should they be admitted to our minimal spelling lists?

2. In the selection of these words, root forms and derivatives were counted as one form unless they presented "different spelling difficulties." "Plurals and verb forms presenting no characteristic spelling difficulties beyond those inherent in the singular or infinitive have not been included. (23) Researches by the writer (24) have convinced him that almost without exception derived forms are spelled with less accuracy than root forms, however simple the change involved, and that one cannot select by inspection the forms having slight variation from those having wide variation.

A further criticism must be made on the regularity of the advancement of words in the scale. If all words were learned at the

same rate, this regularity might exist. Buckingham found that most of the words which he tried out did not progress regularly and that frequently there was a reversal instead of advance in accuracy from one grade to another.

He says, "In order that this list should be of greatest value it should be so constituted that the increases in percents correct so keep pace with the increase from grade to grade of general spelling ability that a word tends in all grades to maintain the same difficulty relative to all other words in the list to which it belongs. A word which is twentieth in point of difficulty for the third grade ought to deviate as little as possible from the same rank in the other grades. The experience gained in making this investigation leads us to think that most words do not meet this condition, even approximately. The span between the third and the eighth grades is very wide. Accordingly, a very large class of words is impossible for the earlier yet easy for the later grades. Still others are really difficult in the lower grades, but of almost no difficulty in the upper grades." (25)

The following illustration from Buckingham's Preferred Lists show that although he purposely rejected the most irregular words, irregularities still existed.

TABLE III. PERCENT OF ACCURACY WITH WHICH CHILDREN OF SUCCESSIVE GRADES SPELLED EACH OF THE GIVEN WORDS.\*

Word	Third	Fourth	Fifth	Sixth	Seventh	Eighth
saucer	11	29	42	58	79	81
raise	21	54	67	84	93	94
already	16	42	43	62	44	77
grease	11	18	37	35	42	57

This table is read as follows: The word "saucer" was spelled by third-grade children with an average accuracy of 11 percent; by fourth-grade children with 29 percent; by fifth-grade children with 42 percent, etc. The percents for the other words in the different grades are read in the same manner.

The first two words show rather consistent increases up to the seventh grade and practically no increase from seventh to eighth. The other two show actual instances of lower accuracy of spelling in one grade than in the previous grade.

The present study shows numerous illustrations of the same phenomenon. Since no word was rejected, lapses appeared, as might have been anticipated from the fact that they occurred in Buckingham's highly selected list. Further, these lapses occur

\* These words with their accuracies were selected from Buckingham, B. R. *Spelling Ability—Its Measurement and Distribution*. Table III, page 14.

much more frequently in cases of high accuracy (i. e., very easy words) than in those of medium or low.

Because of these findings, a serious question must be raised concerning the amount of smoothing which Ayres must have done to get the perfect regularity from grade to grade which he has upon his scale.

In order to present the situation as it was actually found, it was decided to provide in the present study a separate scale for each of the grades and to include in each scale the whole number of words. Ayres arbitrarily rejected from consideration all words for each grade whose accuracy fell below the middle step. In the present study, no smoothing has been done to show regularity of progress from grade to grade and no words have been rejected from any grade scale regardless of the low percent of accuracy involved.

In the field of measurement, the Ayres scale has had a much wider influence than that by Buckingham. More than eighty-five thousand copies have been distributed in less than four years. Many spelling tests, such as those by Courtis (26), Monroe (27), Fordyce (28), and the writer (29) have been based directly upon it, and probably hundreds of superintendents have adopted it outright as a minimal list for their schools.

## SECTION II

### THE PROBLEM

Extension work by the writer among the school people of Iowa has brought the following facts clearly to his attention:

1. School people are eager to use the results of scientific research in their school rooms.
2. They have used and appreciated the Ayres Spelling Scale but rightly think that there should be a larger list.
3. For this larger list to be of most worth, the words must be evaluated in some manner.

It was therefore believed that a distinct service would be rendered the schools of the state if a much larger list, scientifically selected, should be evaluated and made available.

At the time the work was begun, the most extensive study of correspondence vocabulary was that of W. N. Anderson. Through the tabulation of 3723 letters of Iowa people, 361,184 running words revealed 3105 different words having such a frequency as to justify, in his judgment, their being taught in school. The Anderson list was an Iowa correspondence list, scientifically selected and containing sufficient words for a much larger list than had ever before been evaluated. Thus the problem became definite—the making of an Iowa Spelling Scale.

**SECTION III****METHOD OF GATHERING THE DATA****SELECTION AND ARRANGEMENT OF WORDS**

For administrative convenience, only 3,000 words were taken from Anderson's list. The words were listed in order of decreasing frequency and the first 3,000 were arbitrarily chosen. These 3,000 were divided into three sets of 1,000 words each, dividing the frequency as equally as possible. For example, the words *and*, *the* and *to* being in order the words of greatest frequency in Anderson's tabulation, became the first word respectively of each of the three sets. The 4th, 5th and 6th words in order of highest frequency became respectively the second words of each set, and so on. Each set of 1,000 was then divided into ten lists of 100 words each.<sup>4</sup> In each set, the 1st, 11th, 21st, etc. words became list 1; the 2nd, 12th, 22nd, etc. became list 2; etc. Thus each list included words ranging from very high to lowest frequency of occurrence in Anderson's study. These lists were printed 100 words on a sheet, and the ten lists of a set clipped together.

**CO-OPERATION OF THE SCHOOLS OF THE STATE**

An invitation to co-operate in a state-wide survey of spelling was sent to the superintendents of schools in all cities and towns of the state, having a population of 1,000 or more. A few smaller places were also invited to participate. More than 150 superintendents promised the co-operation of their teachers in this work. Enough sets of words were sent to each of these superintendents to supply his teachers and printed instructions accompanied each set. A copy of these instructions and list 1 of the set will be found on pages 142 and 143.

These instructions requested ten days work from each class. The children in Grades II-IV were to spell 500 words at the rate of 50 per day and those in Grades V-VIII were to spell 1,000 words at the rate of 100 per day. All spellings were to be made without preliminary study or any teacher help. Children in all grades were thus asked to spell all the different words, although it was surmised that many of them would not be spelled by lower grade children. Preliminary experiments, however, had definitely shown that one could not predict with a high degree of accuracy what words the pupils in any particular grade would misspell.<sup>5</sup>

<sup>4</sup> The reason for the division of the 3,000 words into sets of 1,000 and lists of 100 will be understood from the instructions to teachers. See page 143.

<sup>5</sup> A very simple experiment in this line was made by the writer with his University class composed of school superintendents and teachers. List 1 of the present study (see page 142) was given to each member of the class with



It was therefore deemed necessary to ask a large number of pupils in each grade (II-VIII inclusive) to attempt to spell each word.

After the 3,000 words were printed and sent out, it was discovered that there were twenty-three words duplicated. Seventeen of these were duplicated in Anderson's original list, while there were six other duplicates due to typographical errors. Thus the list of 3,000 was reduced to 2,977, the number which appears in the completed scales.

The response of the superintendents, teachers and pupils was most gratifying. More than 100 school systems were able to do the work and send in the results. A list of these cities and towns is given on page 144. A conservative estimate indicates that nearly 1,400 teachers and 45,000 children participated in the work.

## SECTION IV

### METHOD OF HANDLING THE DATA

This very generous response brought in several times as much material as could be used. Hence, a random selection of papers on each list was made from all schools returning data in any grade. This means that on the average, about thirty-five cities and towns are represented by pupils in the determination of the position of each word in each scale. At least 200 spellings were used for each word and the total number of spellings used on the 2977 words in the seven grades was 4,662,200.

All data used were scored or re-checked by the writer or by assistants carefully instructed by him. As has been found by everyone investigating spelling, a number of arbitrary decisions had to be made. Words omitted; words illegibly written; words

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the request that he should mark each word as follows: H if in his judgment the pupils of fifth grade would spell the word with an accuracy of from 67 percent to 100 percent; M if they would spell with an accuracy of 34 percent to 66 percent; and L if they would spell with an accuracy of 33 percent or less. The results showed that in spite of the great latitude allowed, but 45 percent of the judgments were correct as compared with the results in this monograph; 31 percent of the judgments were one unit wrong and 14 percent were two units wrong. Two units wrong means that words which pupils spelled with an accuracy of 67 percent or higher were judged as 33 percent or lower and vice versa. Even when the nineteen words whose spelling accuracies by the pupils fell within 5 percent of the dividing points, 33-34 and 66-67, were not considered, only 48 percent of the judgments were correct; 40 percent were wrong one unit and 12 percent were wrong two units. In other words, when experienced school men and women attempted to judge the accuracy with which children would spell a set of words, they were more than 10 percent wrong with more than half the cases and more than 33 percent wrong in 12 to 14 percent of the cases.

substituted due to misunderstanding the pronunciation; wrong form of homonyms; changes in number and tense except when the change involved an addition to, but no change in, the form given were all counted wrong. But one form of spelling for a word was considered right except the few words for which Webster's New International Dictionary lists two spellings as equally correct.

## SECTION V

### ASSUMED DISTRIBUTION OF ABILITY

It was stated in Section II that part of the problem was the evaluation of the words which had been scientifically selected. When the percent of accuracy of spelling has been determined, one form of evaluation has been made, but this is not entirely satisfactory, as will be shown later.

#### NORMAL PROBABILITY CURVE ASSUMED

Figure 1 presents a typical normal probability or normal frequency curve. The curve has the mass of its area in the central part and but a small part near the ends.

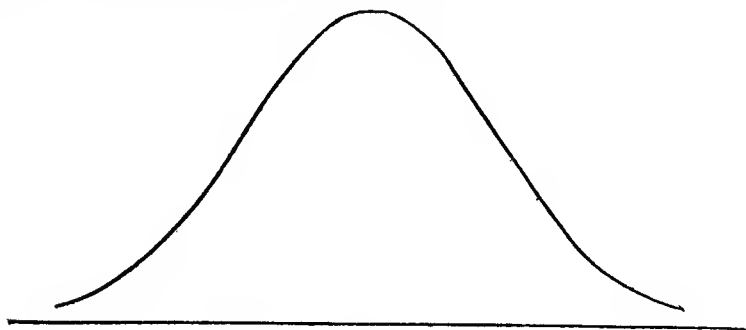


FIGURE 1

This form of distribution has been found to hold true in such human traits as height, weight, length of arms, etc. The great majority of adult men cluster closely around the mean height or weight of all adult men while a decreasing number divide about equally in varying above and below this mean. Only a few vary widely, but those who do are about equally divided as to the direction of their variation.

Does this normal frequency distribution hold true in mental as well as physical traits?

It is a well recognized fact that people with mediocre ability are much more numerous than the dull or the brilliant, and that the very dull and very brilliant are few indeed. Hence, common observation would suggest that general mental ability is distributed in the same manner as physical traits. Does this hold true, also, of the distribution of special abilities such as spelling, arithmetic, language, etc?

The various scales for measuring special abilities such as the Buckingham and Ayres Spelling, Woody's Arithmetic (30), Green's Organization (31), and Trabue's Language (32), have been developed upon the assumption that special abilities are so distributed. The best proof perhaps that the assumption is valid, is that if the assumption is made the results that follow are in very close agreement with the known facts. For these reasons, it was decided to make the same assumption in the present study.

### SOME PROPERTIES OF THE CURVE

The mathematical properties of the normal probability curve have been very carefully and elaborately worked out on two bases, namely, the Probable Error (P. E.) or mean deviation, and the Sigma ( $\sigma$ ) or standard deviation.

The Probable Error, as a function of the normal probability curve, is that perpendicular distance from the mean at which, if an ordinate is erected, the surface included between this ordinate, the curve, the mean ordinate, and the base line includes 25 percent of the surface included by the whole curve and the base line.<sup>6</sup> In

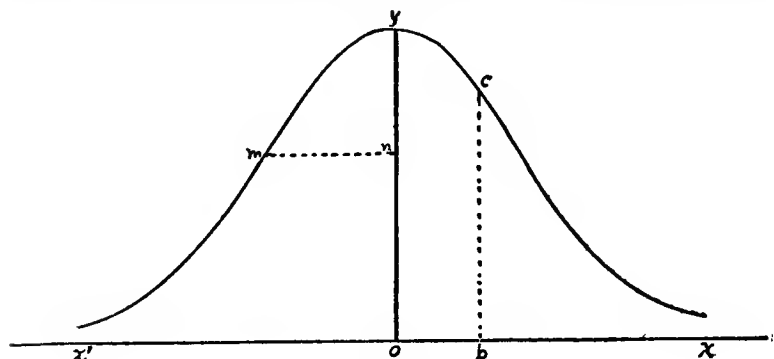


FIGURE 2

<sup>6</sup> In theory the curve and base never meet, the lines being in asymptote, but for practical purposes they are considered as meeting at some given distance from the mean. It is in this sense that we may speak of the surface included between the curve and the base.

Figure 2, *ob* is 1 P. E. distance and *bcyo* includes 25 percent of the surface  $x y x'$ .

Likewise, Sigma or the standard deviation, as a function of the normal probability curve, is the perpendicular distance to the mean ordinate from the point on the curve where it changes from concave to convex; *mn* in Figure 2 represents this distance.

Both Probable Error and Sigma, being functions of the normal probability curve, bear constant relationship to the curve regardless of the variability of base and altitude. Through easily accessible tables, the amount of area included by the curve, mean, base, and an ordinate erected at any given Probable Error or Sigma distance, can be found.<sup>7</sup>

Buckingham, in the development of his spelling scale, used Probable Error and arbitrarily broke off the curve (which theoretically forever approaches the base but never meets it) at  $\pm 4.6$  P. E. This disregards but about one-tenth of one percent of the total surface on either side of the mean.

Ayres, in making his scale, used Sigma and arbitrarily broke the extremities at  $\pm 2.5 \sigma$  which disregards about six-tenths of one percent at each end.

After considerable experimentation, the writer decided to follow Ayres and use the  $\pm 2.5 \sigma$  curve for the following reasons:

1. In practical schoolroom work it is doubtful if it is worth while to differentiate spelling differences of less than one percent. To extend the curve beyond  $\pm 2.5 \sigma$  which is approximately the same as  $\pm 3.75$  P. E., necessitates this finer differentiation.

2. Since 893 words<sup>8</sup> are common to the Ayres Scale and this study, the use of the same form of distribution would permit comparisons not possible otherwise.

#### PLACING WORDS IN THE SCALE

Having assumed the normal probability curve, and having decided upon the measure of variability to use and the limits at which the curve should be arbitrarily broken off, the next problem was to decide on the number of steps into which to divide the base. The spelling accuracies varied in most grades from at or near zero on some words to at or near 100 percent on others. That is, there were some words which children of any grade spelled with perfect or nearly perfect accuracy while there were other words which were missed by all or nearly all the children.

<sup>7</sup> For further discussion of the theory of the normal probability curve, the reader is referred to: Rugg, H. O., *Statistical Method Applied to Education*, Ch. VII.

<sup>8</sup> There are 893 words which appear in both studies which are identical in form while there are 25 others which differ in suffix only. Of these, 10 differ in the suffix "e-d" and 5 in the suffix "s."

In theory the number of steps or divisions into which the base may be divided is infinite, but practical considerations limit the number to but a few. Since our assumption of normal distribution predicates that the number of very good and very poor spellers are few, it is necessary to make finer discriminations between those percentages lying near the extremes of the scale than between those lying near the middle. The larger the number of steps or divisions into which the base is divided, the finer the distinctions drawn all along the scale, but especially is this true near the extremes. As has been stated, however, a finer discrimination than whole percentages can hardly be justified in an instrument designed for practical schoolroom measurement. On the other hand, but few divisions would tend to cover up differences which should be revealed.

Again, after much experimentation it was decided that the division of the base line into twenty-five equal steps, as Ayres did, gave the best results since it permits single whole percentage discrimination of differences near the extremes and does not group together too large percentage differences in the middle.

If there were an equal number of each grade of ability, excellent, good, fair, poor, and very poor; that is, if the frequency surface were a rectangle, then the percentage valuation would be very satisfactory. But we know this is not true and have assumed the distribution to be that of the probability curve instead. Therefore, words which differ by a single percent in the accuracy of spelling do not always represent equal differences in difficulty. Reference to Figure 1 will show quickly that the linear distance between two ordinates so erected as to include between them, the base and the curve, one percent of the whole surface will differ much depending upon whether the ordinates are erected near the median or near the extremes. One of these twenty-five parts into which we have divided the base will underlie approximately nine percent of the surface if located at the median, about four percent if located midway between the median and the extremes and only one percent if located near the extremes. It is this recognition of the type of distribution of ability which makes the percentage evaluation unsatisfactory.

On the basis of the accuracy of the children's spellings, each word was then placed in its proper step or position on the scale. Because it was thought that students of experimental education might care to have the finer distinctions which are not afforded by the step position alone, it was decided to keep the percentage groups within the steps of the scale separate and designate the exact percentage accuracy with which each word was spelled by the children.

If the difficulty of words be defined in terms of differences in position among the steps of the scale, then the words which lie in a single step are of approximately equal difficulty and the words in one step are as much more difficult than those in the previous step as the words in any other step are more difficult than those in the step preceding it. That is, the degree of difficulty between steps is constant throughout the length of the scale.

It will be perceived, of course, that the difficulty of spelling a word is thus defined in terms of the accuracy with which children in a given grade responded to the word under the conditions described in this monograph. It has nothing to do with the inherent difficulties of teaching or learning the word except to the extent that these may be reflected in the accuracy of the spellings of the pupils.

Throughout this monograph, spelling ability is spoken of in terms of efficiency of performance. The only measure of ability which we have for mental traits is in terms of performance. This is common usage and we believe it is perfectly justifiable. We measure ability to read, ability to add, ability to hit a target, ability to lift a weight, etc., in terms of performance. In all these activities, we find by measuring a large number of cases that a few are very good, a few very poor and the majority of all cases occupy an intermediate position. In other words, these various abilities distribute themselves about in the form of the normal probability surface of frequency. It has been the assumption upon which these scales have been built, that spelling ability, ability to do this particular thing under the given conditions, is distributed in this same manner. The scales do not concern themselves with the child's inherent capacity to learn to do, or the difficulties inherent in the words themselves.

## SECTION VI

### USE OF THE SCALES

These scales lend themselves to at least three uses, namely, (1) measurement of status of spelling ability, (2) measurement of growth in spelling ability, and (3) a minimal spelling list for teaching purposes.

Each word having been placed in the scales on the basis of the accuracy with which children in the respective grade spelled it when presented in ordinary list form, any teacher, principal, or superintendent may use the scale to determine how well his own class or school can spell any group of these words in comparison with the children of Iowa as a whole. In making this comparison, the following things should be remembered.

1. That to secure comparable results, the words should be pronounced in accordance with the original instructions (See page 143) and the words scored according to the criteria stated on page 15.

2. That these spellings were from pupils who had on the average completed approximately one-half of the year's work for the grade. Tests given at the beginning or end of the year's work should be interpreted accordingly.

3. That to secure equally reliable results, a much larger list of words must be used with a small group of pupils than with a large group.

4. That in general, words located near the middle of the scale, those with an accuracy of 35 percent-65 percent, are probably more reliable for measuring purposes than those near the extremes.

Words spelled with 100 percent accuracy furnish no test because all the children have mastered them. Some of them could undoubtedly spell much more difficult words. Likewise, words which are missed by all the children furnish no test since we have no means of knowing how much too difficult they are. Since there are many possibilities of wrong spelling against one possible right form, it is probable that 50 percent represents the maximum point of critical measure of a group. This conforms with the experimental work of Otis. (33)

#### MEASUREMENT OF STATUS OF ABILITY

In using the scales for measuring class and school status, it should be kept in mind that words of differing percents within a step are of approximately equal difficulty but to equalize even small differences, a random selection of words from all the percentage groups in a step should be made and these words pronounced as an ordinary spelling test without instruction or previous study. If the average of the class is the same as the average for the step or within the limits of the percents listed under one step, the class has a spelling status on these words about the same as the children of like grade in Iowa. If the class average reaches a percent higher than the highest listed under the step, the class is above average; if below the lowest listed under the step, it is below average.

A word of caution is perhaps in place. The teacher in using these scales must remember that the fundamental assumption upon which the scales have been built is that spelling ability distributes itself according to the normal probability surface of frequency. It must not be expected, therefore, that all the children in her class will spell all the words in a given test, even though

the words are chosen from a single step on the scale, with the same percent of accuracy. A wide range of variation is to be expected and a very narrow range would be quite unusual. Further, the words in a step have been placed there as of approximate equality on the basis of a large number of spellings and it is not to be expected that, with a small group such as a class, the accuracy of spelling on each of the words will be equal.

#### MEASUREMENT OF GROWTH OF ABILITY

In measurement of growth, two objects may be distinguished, (1) the measurement of growth or change due to a term or year of school work, and (2) the measurement of growth or change due to the use of a special method, device, or time variation during a greater or less period.

The first measurement will probably be the one of most significance to teachers and superintendents, and gross differences will be of greatest interest. For this reason, the differences may well be considered mainly in terms of step changes.

The second measurement will be of primary interest to special supervisors and students of experimental education. Since these persons are interested in more refined results, they should consider the individual percentage groups within the step. Whole step differences may frequently be larger than the changes brought about by the conditions involved in the experiment.

#### A MINIMAL SPELLING LIST

This list presents with a high degree of accuracy the words which people use most frequently in written correspondence. For this reason it is highly important that pupils in the elementary school learn to spell these words. By using the words of the scale as the material for regular class instruction, teachers may note class improvement, but they must recognize that as a scale it is becoming less and less valuable as a measuring instrument. However, the writer agrees completely with Ayres when he says, "Probably the scale will have served its greatest usefulness in any locality when the school children have mastered these words so thoroughly that the scale has become quite useless as a measuring instrument." (34)

### SECTION VII

#### LIMITATIONS OF THE SCALES

The scales presented herewith are subject to certain limitations, some of which will be discussed in this section.



## NUMBER OF SPELLINGS USED

In general, with a random selection the reliability of results increases as the square root of the number of cases involved. In the following scales, the number of spellings on each word in each grade was 200 or more. This number was selected as being a sufficient number to give a degree of reliability acceptable in this type of measurement.

However, in order to ascertain the range of variability which might be expected on the basis of 200 spellings in comparison with a larger number, 700 spellings were selected at random on a list of 100 words. The accuracy of spelling on each word was checked out per 100 spellings and three combinations of 200 each were compared with the accuracy of 700. The spelling accuracy of the 100 words in the 700 spellings varied from 100 percent for the three easiest words to 11, 15 and 20 percent respectively on the three most difficult words.

Since the words were to be placed in the scales in terms of steps of equal value as stated previously, it was thought that this examination of reliability of placement should be in terms of steps rather than in terms of percent. The total scale was divided arbitrarily into three-step groups on each side of the middle step. Then the three on each side adjacent to the middle step and this middle step were thrown together since there seemed no valid reason for keeping them separate, the percents in each step being symmetrically placed above and below the middle step. When the 100 words were distributed according to this grouping on the basis of accuracies obtained from the 700 spellings of each word, it was found that there were 12 words in the easiest group, 32 in the next, and so on as shown in column four of Table II.

Next the accuracy for each word on the basis of each of the first, second, and third 200 spellings was taken from its accuracy

TABLE IV. AVERAGE DEVIATION OF SPELLING ACCURACY IN TERMS OF SCALE STEP OF RANDOM SAMPLINGS OF 200 SPELLINGS FROM THE ACCURACIES OF 700 SPELLINGS.

Accuracy in Percents on 700 Spellings	Number of Scale Steps Within These Limits	Average Range in Percent Included in One Step	Number of Words in Group	Average Deviation in Scale Step		
				First 200	Second 200	Third 200
98-100	3	1.00	12	.42	.42	.42
91-97	3	2.33	32	.55	.60	.63
77-90	3	4.67	20	.49	.69	.41
24-76	7	7.57	33	.38	.27	.34
10-23	3	4.67	3	.50	.07	.93

on the basis of the total 700 and the average difference of deviation of all words within the group was determined. This average deviation in terms of percent was then converted into average deviation in terms of scale step by dividing by the average range in percent included in one step.

From these data it is concluded that since the average variation is less than 0.7 of a step in all cases but one, and is 0.5 of a step or less in more than half the cases, 200 spellings is amply sufficient for the degree of accuracy required in placing the words in a scale of this type.

#### DISTRIBUTION OF SPELLINGS

It may be considered a limitation on the scales that all spellings used were secured from Iowa school children. The answer to this is two-fold: (1) that the scales were designed primarily for service to the school people of the state of Iowa. From this standpoint this limitation becomes a positive recommendation. (2) On the basis of a state-wide study of spelling, involving 8818 children in Grades III to VIII inclusive, on spelling tests devised from the Ayres scale, the school children of Iowa spell with about the same average accuracy as children in the 86 cities involved in the Ayres study. This is shown by Table V.

TABLE V. COMPARATIVE SPELLING RESULTS: AYRES SCALE AND 27 IOWA CITIES. 20 WORDS, LIST SPELLING.

Grades	Third	Fourth	Fifth	Sixth	Seventh	Eighth
Number of Children	1620	1635	1841	1338	1228	1156
Iowa Average Scores	73	85	74	83	77	86
Ayres Standard	73	88	73	84	73	84

The table is read as follows: 1620 third-grade children spelled the 20 words with an average accuracy of 73 percent and the Ayres standard for these words is also 73 percent; 1635 fourth-grade Iowa children spelled the 20 words with an average accuracy of 85 percent while the Ayres standard on these words is 88 percent. The number of children and the average accuracy for Iowa children and the Ayres standard for the other grades are read in the same manner.

#### WORDS GIVEN IN LIST FORM

It is recognized that the spelling of words in list form does not give an exact measure of the accuracy with which children will spell words in their ordinary daily work. This condition is perhaps more closely approximated by a timed-dictation test. In neither case, however, can we be certain that the ability displayed

is exactly the same as that which will function when the child is writing spontaneously. These scales do present the accuracy with which children did spell these words when presented under the conditions described in the monograph.

#### WORDS OF VARYING DIFFICULTY PRESENTED IN THE SAME LIST

Making up the list of words on the basis of approximately equal distribution of words of high, median, and low frequency in written correspondence necessarily brought into the same list, words of widely varying difficulty. How far this tends to produce an inaccurate result in the spelling of the common words is not definitely known.

Due to the fact that 23 words were duplicated in the lists sent out, it is possible to make some comparison between the accuracy with which words were spelled when they occurred early in the list, preceded by words which were comparatively easy, and when the same words occurred late in the list, preceded by words of greater difficulty. Thirteen of these 23 words involved this situation of appearing one time rather early in the list and a second time rather late. A comparison of the accuracy with which the children in each of the different grades spelled the word when it occurred early in the list with the accuracy with which it was spelled by children of the same grade when it occurred late in the list, showed two things:

1. That in all grades there was a somewhat higher average accuracy on the words when they occurred early in the list, though some words showed the opposite situation. The median increase in accuracy in the seven grades on words occurring early in the list over the accuracy on the same words when occurring late in the list was but 2 percent. This difference in accuracy was greatest in the third and fourth grades, though a priori judgment had decided that this factor would most affect second-grade children and have less influence thereafter from grade to grade.

2. The average difference of spelling accuracy in these two grades which seemed to be most greatly influenced by this factor was practically identical with the range of percents included in a single step in the portion of the scale in which these words appear.

Since these words were placed in the scales in an intermediate position determined by the average accuracy of spelling in the two positions, it is quite certain that no word is misplaced more than a single step. It is probable that half the words are misplaced less than half a step (that is, not at all in the scale) due to this factor.

## NO ZERO POINT ON THE SCALE

These scales in common with the Ayres scale, place the words on the basis of relative difficulty rather than absolute difficulty from a point which would indicate no ability at all. Because of this limitation, it is not possible to state that words appearing in any single step are so many "times as" difficult as words appearing in some other step. It is only possible to state that words in any step are as much more difficult than the words in the step preceding as the words in any other step are more difficult than the words in the step preceding that. In other words, the inter-step difficulty is approximately equal throughout the scale.

From the standpoint of practical usage the lack of an absolute zero-point presents no serious objection. In the measurement of progress, school people are interested in making comparison with norms and with previous status rather than in determining "times as" relationships. For this reason, a zero-point was not considered of sufficient importance to justify the large amount of additional work which would have been necessary to have secured it.

## SECTION VIII

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**SECTION IX**

**THE IOWA SPELLING SCALE**

**GRADE II**

## GRADE II

STEP 5—94%		in	get	singing
day	95%	let	play	they
it		that	some	with
		82%	told	68%
and	94%	did	75%	age
is		look	ball	am
me		so	cannot	box
		tell	hat	came
			ring	going
			this	hill
STEP 6—92%		STEP 9—79%		its
	93%		74%	like
he		81%	there	mad
to-day			wind	pig
	92%	have	73%	playing
are		no	cold	red
at		up	door	ship
	91%	will	girl	thank
can		80%	let	top
		big	or	67%
		but	think	
		land	72%	call
STEP 7—88%		old	bee	end
	90%	say	doing	far
all		ten	got	from
the		79%	May	give
you			sat	had
	89%	ago	three	stop
be		an	toy	66%
go		hand	71%	free
	88%	hen	baby	ice
dog		into	eat	king
net		of	has	pin
see		on	home	put
she		us	pie	65%
	87%	as	seeing	bed
boy		last	then	being
may		man	70%	by
my		to	bad	fast
was		tree	dad	feet
		your	looking	fill
		77%	much	find
STEP 8—84%		away	thing	flat
	86%	cat	time	green
good		fat	year	lay
	85%	gold		made
book		out	STEP 11—66%	
for		run	69%	Miss
if		way		night
	84%	we	bell	one
little			cap	sun
	83%		corn	64%
come		STEP 10—73%		bat
do		76%	five	glad
his			hit	grass
how		cow	love	her
		dear	over	



inside	lost	cake	52%
make	papa	coat	about
milk	pen	holding	art
most	poor	left	ate
must	rich	morning	cool
net	room	nut	fell
same	seen	plan	life
telling	snow	rose	low
63%	sold	shop	near
hot	soon	slip	pass
name	sport	stove	place
now	take		rug
wall	took		saying
	west	STEP 13—50%	sell
	what	54%	spell
STEP 12—58%	58%	ask	spot
62%	aside	bear	within
apple	asleep	beside	51%
band	fun	blow	around
bill	him	born	city
each	landing	dust	forget
fall	miss	farm	hall
nine	mother	feed	just
when	pay	finding	kind
yet	sin	helping	list
61%	state	lake	pick
bid	tip	late	stay
cup	57%	long	Sunday
down	can't	post	town
ever	cut	price	upon
kiss	fish	ride	wife
mill	food	seed	50%
part	grade	song	been
rest	hay	too	bit
school	here	well	black
send	met	53%	blank
six	rain	along	brand
tent	sleep	bank	car
till	wet	belong	fee
want	56%	date	gather
60%	child	deep	grand
bay	game	foot	head
cent	keep	happy	hers
forgot	lift	joy	print
gave	mud	kill	shall
hold	rock	noon	side
live	sit	plow	silk
Mr.	small	sad	sis
sent	tenth	said	spring
stand	than	set	tie
standing	there	shot	very
week	trip	snowing	went
wish	win	two	49%
59%	yes	under	arm
best	55%	war	display
bring	after	where	faster
income	back		finger

gate	while	44%	colder
Jan.	why		cooking
mind	46%	bringing	football
nap	barn	card	hand
never	became	clear	however
our	become	corner	June
read	blue	dark	leg
rod	bog	dinner	lone
roll	coming	fishing	lump
soft	fair	mend	nothing
spent	ford	north	older
step	gland	off	once
street	hear	past	outfit
such	help	rush	river
wanting	lived	show	sixth
48%	maker	smart	sixth
bake	mine	stone	stood
begin	open	tend	these
drop	rent	test	tile
feeding	rip	thinking	to-night
four	shut	trust	winter
gray	slow	try	41%
hard	son	wild	bright
inch	sort	willing	drive
letter	who	working	felt
note	window	yourself	fit
paper	wood	43%	fort
pine		blame	glee
raining	STEP 14—42%	boat	hog
rate	45%	both	inform
real	banker	close	lie
sheep	behind	damp	master
starting	better	drum	only
thanking	bird	even	pa
wide	butter	handed	page
wool	calling	hoping	park
work	cash	lives	report
47%	drug	March	seem
able	face	more	seven
cord	found	new	skate
fine	gone	nose	something
form	grant	ours	start
glass	kid	passing	teaching
goldfish	lady	pole	wage
light	luck	pools	walking
mamma	mail	render	whenever
meat	mate	saw	wishing
nor	might	someone	40%
oh	nice	sometime	any
order	rust	walk	apart
plate	stamp	42%	brother
sight	still	added	bunch
sister	store	asking	buy
sweet	table	below	care
thin	without	bet	chop
were		cane	cream
		cast	forming
		class	gown

herself	wake	harder	deal
hour	worker	himself	fifty
hunt	38%	keeping	fire
hunting	alive	market	first
ink	backing	move	fresh
jump	Christmas	overcoat	Friday
large	clay	paying	grit
longer	could	sink	ground
looked	die	staying	happen
loved	done	storm	killed
lovely	egg	train	kinder
mark	Feb.	whatever	kindest
myself	finish	36%	liver
outside	flower	case	longest
ranch	forgive	clock	noted
reader	garment	closer	pink
rice	given	darling	posted
saved	grip	don't	recall
short	ha	farmer	sack
snap	inclose	filing	safe
snowed	kitten	forth	sending
swell	least	hate	sum
training	ma	held	taken
yellow	number	herewith	trade
39%	plum	inasmuch	word
afternoon	porch	need	write
bugs	printed	next	34%
camp	road	oldest	alone
coy	rolling	other	bean
draft	scrap	own	beg
drill	slide	pack	began
evening	spend	rack	bother
feeder	stick	rank	boxes
getting	stunt	roof	delay
goat	washing	sick	everyone
handy	yard	sorry	feeling
having		south	fellow
homesick	STEP 15—34%	supper	filling
horse	37%	tank	gift
I'll	across	teeth	handsome
know	again	their	hardly
lame	badly	wash	hole
leave	bite	which	indeed
lunch	boss	won't	insist
meet	broke	35%	July
Monday	clothing	air	kindly
neck	contest	also	listed
printing	cost	aunt	loud
reading	cross	base	meal
renting	dandy	blood	mostly
right	eye	catalogue	mouth
round	farther	chair	neat
Sat.	fight	chill	Nov.
shed	frost	church	Oct.
sock	fur	clean	oil
spelling	great	cooler	picking
summer		cover	pride

riding	flesh	chairman	beat
row	folder	change	household
says	gas	charge	merry
shame	gladly	children	Mrs.
shortly	lighting	chum	named
sir	likely	crib	payment
somewhat	linen	crop	per
space	making	deliver	printer
spending	many	drew	rained
taking	pain	few	shipping
tiny	poorly	forest	thick
	race	fourth	thus
35%	seat	frame	true
bench	seventh	harvest	trying
called	shade	herein	visit
dice	slept	hundred	warm
dose	stage	I'm	you'll
east	stating	joke	28%
eve	ton	limit	add
fear	water	larger	attending
half	whereby	pair	basket
holder		party	Bible
house	31%	please	brought
ill	act	post card	brush
intend	asked	scout	calf
later	baking	showed	cheer
less	beat	sooner	Dr.
mean	chose	sound	drilling
meeting	creep	strongly	fitting
peach	enter	together	garden
pending	floor	treat	gee
profit	folk	trunk	likewise
rabbit	funny	understanding	manage
remind	grandma	washed	mighty
renter	grind	weak	nearly
sash	job	wonder	present
saving	nearer	29%	selling
soap	needing	amount	sleet
spoke	newspaper	awhile	speed
those	none	beef	stranger
32%	pound	before	sunshine
adding	protest	belt	talking
agree	sale	birthday	thankful
ahead	shape	booklet	track
belonging	smaller	brick	trained
catch	stair	closing	workmanship
cattle	stock	dearest	27%
check	teach	clearly	anyone
clever	waste	depend	behalf
club	white	depending	block
count	woven	fail	cared
covering		fix	carpet
dead	STEP 16--27%	front	carrying
deed	30%	grew	chapter
dress	another	hair	cleaner
every	banking	handling	cleaning
father	begun	hearing	cloth
file	blew		

coffee  
content  
credit  
dare  
Dec.  
does  
extent  
former  
growing  
housekeeping  
idea  
lining  
maple  
nobody  
opened  
packing  
paint  
self  
strike  
strongest  
sure  
tax  
teacher  
until  
wishes  
worked

26%

admit  
always  
branch  
coal  
danger  
December  
film  
granted  
grown  
heating  
high  
insert  
isn't  
January  
knew  
mass  
month  
ninth  
November  
oats  
opening  
pencil  
point  
press  
program  
pull  
remark  
saver  
thread  
tire

unless  
wanted  
wheel  
yesterday  
yoke

25%

all right  
body  
delighted  
dressed  
dresser  
eight  
everything  
family  
glove  
heap  
inclosing  
jar  
loss  
lung  
mailed  
marking  
maybe  
overlooked  
people  
played  
queen  
renew  
seal  
silver  
somewhere  
steel  
talk  
trusting  
twenty  
understood  
voting  
weekly  
welcome  
western  
wire

24%

army  
brain  
broken  
crowd  
early  
enjoy  
filled  
fund  
handled  
haven't  
helpful  
higher  
invited  
joyful  
kept

kisses  
lace  
largest  
lose  
maid  
member  
membership  
o'clock  
oven  
partly  
planted  
proud  
rail  
removed  
rented  
sheet  
shipment  
shoe  
sire  
started  
tight  
township  
turned  
twice  
use  
wear  
wise  
won  
world  
worth

STEP 17—21%

23%

almost  
beet  
bigger  
burn  
carry  
closed  
cloudy  
colt  
deeply  
demand  
died  
dirty  
enjoying  
finest  
fixed  
greater  
grove  
inviting  
main  
match  
October  
oversight  
plain

prior  
prize  
proper  
pump  
pupil  
pure  
regard  
regret  
remit  
respond  
sand  
September  
team  
throw  
understood  
walked  
would

22%

absent  
adjust  
afraid  
anyway  
battle  
beaten  
board  
chart  
copy  
disposed  
dollar  
dream  
flour  
forty  
fruit  
gain  
glasses  
investment  
latest  
living  
lowest  
lucky  
moved  
namely  
news  
nineteen  
oblige  
per cent  
picture  
pocket  
quick  
seemed  
simple  
sixty  
skating  
soil  
stuff  
toward  
tried

turn	habit	pillow	seller
velvet	hereafter	plenty	shown
	hereby	quart	sickness
aid 21%	iron	quite	sitting
because	I've	regarding	slight
birth	junk	retail	talked
bought	knowing	rushed	throat
cook	law	seventy	twelve
crew	load	struck	vary
daddy	matter	thereafter	violin
exchange	permit	travel	waited
foolish	powder	tread	weather
frankly	public	Tuesday	weigh
highest	quit	upper	whether
hotel	Sept.	watch	writer
I'd	since	wheat	Xmas
inclosed	single		
itself	size		
Latin	standard	STEP 18-16%	17%
latter	supply		acting
loaded	title	18%	adopted
misses	vote	above	artist
money	wagon	ache	attain
moving	wedding	adjustment	cabinet
nerve	whole	afloat	chain
nicely	withdraw	already	chance
pretty	wrote	April	damage
setting	yearly	benefit	debating
submit	young	charming	delivered
taste	youth	chicken	else
tested		closely	enjoyed
third	19%	company	everybody
thought	address	delayed	fifth
voter	ans.	discount	forgotten
wrong	anything	dispose	globe
	anywhere	extra	haste
20%	blooming	grandfather	hello
agreed	buyer	greatest	independent
among	center	growth	informed
attend	choose	hurt	known
brown	coin	inspect	labor
busy	counting	invite	lamb
buying	doctor	joined	lately
coach	edge	laid	leaf
dance	entry	mailing	liked
dated	fact	minister	management
death	feel	moment	needed
debate	forwarding	ninety	person
detail	French	odd	power
dwelling	friendly	otherwise	prevent
enclosed	inches	passed	reaches
enclosing	item	placed	ready
fare	join	plainly	recently
fever	lumber	postage	refund
forenoon	mister	railroad	rule
forwarded	monthly	reported	sore
goose	music	sample	study
grain	perhaps	Saturday	tatting
			ticket

tired  
transit  
Tues.  
used  
worm  
zero

16%

advice  
advise  
agent  
auto  
await  
bottle  
country  
dancing  
didn't  
enclose  
fern  
fifteen  
friend  
froze  
further  
greeting  
handle  
heard  
helped  
hoped  
intended  
lesson  
loose  
lower  
message  
nurse  
owe  
range  
rapidly  
raw  
reach  
reached  
reaching  
reply  
rubber  
sew  
square  
term  
that's  
unpaid  
utmost  
whom  
wished  
woman

15%

aim  
anybody  
anyhow  
August

awaiting  
booster  
bottom  
branches  
building  
cheerful  
client  
comply  
devoted  
dread  
easy  
final  
finished  
follow  
fourteen  
fully  
hasn't  
hurry  
ideal  
island  
knot  
largely  
liberty  
locate  
lonesome  
losing  
loving  
mistake  
outlined  
painter  
pastor  
presented  
primary  
proved  
rainy  
raised  
repair  
return  
scare  
score  
semester  
serve  
sewing  
shock  
spare  
speak  
stayed  
suit  
temple  
therefore  
visited  
wait  
wondering

14%

afterward  
ashamed

Aug.  
basis  
billed  
bowl  
buggy  
captain  
cartoon  
change  
changing  
cleaned  
clerk  
clothe  
control  
county  
covered  
dealing  
delightful  
elect  
expert  
failed  
flavor  
fullest  
gasoline  
germ  
gotten  
gravy  
hardware  
hare  
improve  
inst.  
kindness  
ladies  
loan  
lonely  
manual  
mere  
method  
missed  
office  
ordering  
packed  
placing  
provided  
quickly  
renewed  
respect  
ribbon  
serving  
should  
slightly  
smooth  
speaker  
stated  
steam  
thanksgiving  
thereof  
unable

uncle  
useful  
value  
waiting  
wearing  
weary  
wouldn't

STEP 19-12%

13%

alfalfa  
aren't  
boiler  
booth  
bushel  
charged  
classes  
clearly  
confined  
constant  
dozen  
eager  
extend  
fairly  
fancy  
greatly  
industry  
learn  
learned  
leaves  
level  
lovingly  
model  
movement  
needle  
noise  
owing  
patent  
pavement  
pleased  
proof  
recent  
recovered  
remembering  
served  
share  
slipper  
taught  
thousand  
topic  
wasn't  
watching  
women  
you'd  
zone

12%	second	recover	kitchen
answered	server	relation	leaving
apply	settle	remove	length
beyond	skirt	scale	limb
breaking	soldier	spirit	madam
build	tract	splendid	married
candle	using	steady	middle
caught	voice	stopped	misunderstanding
checking	Wednesday	strict	ordered
choosing		subject	painting
coasting	11%	suffering	preparing
color	advantage	talent	properly
comfort	agreeable	tanning	publisher
cough	amendment	taxes	quiet
decline	backed	to-morrow	quote
dependent	bluff	truly	reason
desire	careful	we'll	refer
earth	carefully	witch	remember
eighty	cause	worry	represented
eleventh	caused		result
enrollment	colored	10%	several
fence	cottage	abstract	simply
forward	court	advising	spread
freeze	cute	against	stamped
friendship	delivery	allow	studying
furnish	disgusted	ankle	supplied
gaining	during	answer	text
guess	enough	answering	Thursday
health	entirely	applicant	trace
hence	express	automobile	wonderful
illness	February	Ave.	X-ray
installed	federal	awful	
interest	formed	barley	STEP 20—8%
ivory	formerly	bridge	
leader	graze	Bro.	9%
letting	heavy	button	acre
located	history	cheap	addresses
manner	interested	coast	advance
meantime	interesting	collar	advertising
northern	manager	condition	appeal
obliged	modern	crazy	attach
offering	nevertheless	democrat	attached
organ	notion	destroyed	bass
ought	offered	due	boarding
owned	painted	ease	broad
patch	parlor	enroll	candidate
performed	penny	entitle	carried
problem	piano	field	cheaper
providing	picnic	furnishing	confident
quarter	post office	gallon	consist
rapid	prevented	gentleman	contain
record	promotion	hadn't	contained
refuse	prompt	heretofore	containing
request	promptly	important	continue
rifle	proves	including	convince
safety	putting	information	cotton
season	raising	invoice	credited



customer	united	relative	graduation
daily	vacation	renewal	grammar
dairy	valued	republican	guide
data	view	reputation	heir
dealer	whose	returning	homestead
degree	writing	satisfy	honest
deportment	yourselves	shipped	human
direct	8%	shipper	hurried
discontinued	addressed	sign	improved
duty	advertise	situation	increasing
employed	ample	statement	jury
enrolled	argument	station	justify
entertainment	assist	sugar	learning
except	assortment	surprise	leather
favor	attention	thesis	librarian
firm	barely	though	limited
following	believe	touch	listen
fortune	blackberries	towel	literary
girlie	braid	visiting	location
happened	builder	waist	loyal
improving	built	we've	merit
instant	bulk	winner	obtain
instructed	cellar	7%	operation
intention	comfortable	ability	patron
internal	confer	according	perfect
international	continued	acted	perfectly
machine	daughter	active	piece
nation	education	addition	policy
normal	effort	adjusted	prepaid
ocean	establish	administrator	property
pattern	etc.	ambition	published
peace	figure	auntie	question
phone	fuel	between	register
phoned	gained	bracelet	regular
potatoes	gentlemen	break	regulation
postal	German	breakfast	remedy
prefer	good-bye	capital	remembered
president	grateful	cashier	rendered
promised	healthy	checked	resident
proven	meter	concluded	section
raise	officer	consider	seldom
reasonable	opera	considerable	shopping
remain	operated	contract	shoulder
replying	package	conversation	style
represent	payable	cutting	suppose
requested	pearl	desired	thirty
returned	planning	develop	total
ruin	pleasant	director	transfer
running	position	discovered	treated
rye	priced	dodge	vacant
student	Prof.	drama	valley
suggest	protected	entire	
support	provide	exceptional	STEP 21—6%
through	queer	explained	6%
trouble	raiser	fault	account
turkey	realize	fitted	action
uniform	reduce	force	actor

advertisement	ourselves	convinced	submitted
allowed	personal	correct	suggested
although	planned	course	suitable
altogether	popular	deserve	supposed
appear	possess	district	terrible
applied	possibly	doesn't	tickled
appointment	prayer	doubt	volume
average	preacher	earnest	watched
avoid	product	employee	
ballot	prospect	entertaining	STEP 22—4%
based	really	ere	
believing	realizing	estimated	4%
blessed	repeat	example	absolute
calendar	require	expected	absolutely
cherries	retain	explain	accept
choice	route	explaining	accordance
college	saddle	federation	advised
common	sanitary	female	alley
complete	satisfactory	foundation	appearance
congratulate	secure	general	appointed
consideration	secured	group	arrive
contemplated	separate	hailed	arrived
convention	settlement	headache	assuring
copies	silence	honestly	bonus
corporation	slippery	illustrated	butcher
correspondent	studies	include	canvass
couple	subscriber	included	capacity
cousin	surprised	invitation	carrier
curtain	throughout	lbs.	certain
decide	traveling	lodge	circular
decided	treatment	maintain	compelled
desiring	trial	mentioned	constantly
earning	weight	million	correction
eighteen	weren't	minute	crippled
either	worrying	moral	cure
election	worse	narrow	democratic
English	worst	noticed	deposit
entered		opinion	depot
envelope	5%	owner	described
examination	advertised	particular	directed
favorite	affair	parties	disappointment
figured	amounting	personality	disposal
forced	attractive	pertaining	earliest
graduating	beauty	possible	elected
hesitate	biggest	preparation	entitled
holiday	calm	prepared	evidently
honor	cement	private	exactly
hospital	central	quoted	exam.
husband	chief	reliable	excuse
ironing	cigar	reliability	exhibit
judge	cities	requesting	expired
label	combination	reserve	expensive
mention	commence	salary	expressed
neglect	conduct	select	fabric
notice	congratulation	service	factory
notify	consequently	sorrow	failure
orange	considered	stories	future
	considering		

genuine	union	disease	occupied
graduate	urge	distribution	operating
guest	valuable	division	ordinary
handkerchief	welfare	dreadful	organization
happiness	worthy	durable	organized
headquarter	written	easily	original
immense	3%	employer	parcel
improvement	absence	entering	parent
inclined	accomplish	epidemic	period
increase	accommodate	equipped	practically
inquire	acquainted	error	practice
inquiry	administration	especially	premium
instead	adventure	established	prepare
instruct	agriculture	excellent	presume
investigation	allotment	excited	principal
jobber	animal	exciting	principle
judgment	anxious	expense	privilege
laugh	application	explanation	probably
lecture	appreciated	extensive	proceed
legal	arrange	factor	profitable
library	arranged	factories	promise
local	article	favorable	publication
manufacture	assembly	favored	rec'd
meant	assistant	feature	received
merely	athletics	figuring	recommend
nature	attended	freight	referred
neighbor	author	frequently	regardless
neighborhood	automatic	frozen	relieve
nervous	available	furnace	requirement
nickel	awfully	furnished	reservation
obligation	balance	garage	response
obtained	banquet	geometry	resulting
practical	bargain	ghost	Sabbath
practicing	brief	guarantee	salesman
procured	bulletin	guaranteed	satisfaction
produce	burden	imagine	satisfactory
progress	business	increased	secretary
purchase	carnival	identify	securing
purpose	cedar	indicate	sense
quality	certainly	inducement	society
receive	climate	immediately	straight
reference	collect	installment	subscription
referring	completely	instance	superintendent
refreshment	composition	institution	surplus
refused	concern	investigate	telephone
required	confirming	involved	thorough
respectfully	connected	journal	thoroughly
satisfied	connection	justified	timothy
search	conveniently	knowledge	usually
settled	co-operating	magazine	
signature	couldn't	material	
signed	council	materially	
special	crowded	measure	
surface	debt	mortgage	
sweater	difference	national	
theater	difficulty	naturally	
treasurer	direction	object	

STEP 23—2%

accordingly  
additional  
affectionately  
annual  
annually

anticipating	elsewhere	production	appreciation
appendicitis	engineer	proposition	approved
arrival	engineering	purchased	arriving
assessment	entertain	qualities	assigned
assure	equipment	quantity	assignment
assured	excess	readily	assistance
attempt	exclusively	receiving	associated
attendance	executive	recess	association
authorized	exercise	recite	assume
aware	exhibition	reduction	assurance
beginning	existing	registered	attraction
canned	experience	registration	authority
capable	expression	remembrance	avenue
certificate	extreme	representation	barrel
chautauqua	fashion	responsible	calves
Christian	finally	rough	campaign
circulation	followed	rural	candidacy
circuit	fraternally	selected	celebrate
circus	funeral	senior	channel
citizen	geography	similar	choir
civics	glorious	sincere	circumstances
coarse	gratitude	social	commerce
collection	grocery	solicit	commercial
commission	Hallowe'en	strawberries	community
commissioner	honorable	succeeded	companies
committee	illustration	success	conclusion
communication	importance	successful	conference
companion	impossible	superior	confirm
complaint	influence	supervision	connect
concerning	inquiries	system	consequence
concert	inspector	telegram	considerably
confidence	insurance	territory	constitution
connected	interfere	themselves	construction
connecting	issue	transportation	convenience
conservatory	junior	university	co-operation
consultation	language	variety	cordial
contemplating	legislation	weighed	cordially
contrary	liable	wholesale	corrected
co-operative	liberal	worried	correspond
correctly	literature		crochet
courage	machinery		crocheting
creamery	medicine	STEP 24—1%	coupon
current	mental	accident	dangerous
cushion	merchandise	accomplished	decision
customary	moderate	accredited	decrease
definite	musical	acknowledge	definitely
deliveries	neglected	actual	design
demonstrated	nephew	actually	destination
deserved	niece	admission	discourage
development	organize	advanced	duplicate
different	pardon	advancement	efficiency
directly	patient	algebra	efficient
domestic	permanent	analysis	electricity
doubtless	politics	anniversary	enormous
duties	positive	announce	enthusiasm
effect	preliminary	appeared	enthusiastic
electrical	presence	appreciate	essential

evidence	opportunity	type	disappointed
examine	orchestra	universal	encourage
examined	originally	unusually	equally
examiner	particularly	usual	exact
exception	physician	vision	excitement
exceptionally	pneumonia	zephyr	executed
exhausted	politician		extremely
expecting	possession		familiar
extended	previous	STEP 25—0%	foreign
extension	produced	acceptance	fortunate
famous	prosperity	accompanying	fundamental
fashionable	receipt	acquaintance	generally
favorably	reception	acquire	inferior
fierce	reduced	activity	ingredients
financial	regretting	advisable	leisure
furniture	regularly	affidavit	majority
generous	relationship	agency	manufacturing
government	relieved	agricultural	maturity
gradually	remained	alumni	mountain
grippe	remittance	ambitious	natural
hastily	representative	announcement	occasion
humor	resigned	anticipate	occasionally
hustling	resource	apparatus	peculiarities
illustrating	scarce	appreciating	personally
immediate	science	approval	phosphorus
impression	selection	arrangement	physical
inconvenience	series	associate	possibility
individual	serious	attitude	prevail
institute	sincerely	attorney	process
instruction	soliciting	auditor	profession
instructor	specialty	blizzard	professional
instrument	stationary	bureau	prosperous
introduced	stomach	character	qualities
introduction	straightened	characteristic	quotation
issued	strength	collecting	recommendation
license	strictly	compliment	responsibility
lieutenant	struggle	confirmation	rheumatism
liquid	studied	continuous	schedule
mechanical	substitute	convenient	scientific
necessary	succeed	correspondence	source
necessity	sufficient	courteous	specification
neither	supervisor	demonstration	unnecessary
notary	supplies	description	unusual
notified	surgery	difficult	various
numerous	sympathy	disagreeable	vicinity
official	tuberculosis	disappoint	



**SECTION X**

**THE IOWA SPELLING SCALE**

**GRADE III**

# GRADE III

STEP 1—100%	92%	boy	looking
in	by	cannot	make
	come	hand	much
STEP 2—99%	get	run	must
is	have	sent	pay
	into	we	put
STEP 3—98%	may		sand
	on	87%	sat
are	one	ago	six
good	play	as	snow
he	say	down	sun
it	time	home	yet
	with	so	
STEP 4—96%	your	toy	85%
		when	after
97%	an		bed
can	for	STEP 8—84%	bring
my	his	86%	cold
see	like		cow
that	man	age	far
	some	bell	foot
96%	the	door	ill
and	them	from	just
be	up	letter	kill
book	way	live	made
day		night	meat
she		or	they
	STEP 7—88%	red	top
STEP 5—94%	90%	thing	week
95%	big	till	
all	gold	us	82%
at	got		back
but	had	85%	ball
did	her	bee	black
do	of	box	call
little	over	came	doing
not	think	coat	five
out	this	forget	gave
was	tree	going	grass
you	wood	most	green
		three	hard
94%	ask	throat	has
dear	give	well	ink
dog	how	what	lot
eat	if		mother
go	land	apple	Mr.
me	last	bad	playing
old	let	cat	ring
to-day	look	fast	ship
year	love	fish	Sunday
	tell	grade	tent
STEP 6—92%	ten	hat	thank
93%	then	king	there
ice		light	wind
will	being	long	



STEP 9—79%		singing	song	glad
81%		tenth	soon	here
about		too	spell	hunt
am		town	standing	mine
baby		war	start	note
bank			state	sad
bay		78%	told	shop
best		along	two	sold
each		aside	under	stand
feet		car	want	stop
fill		colder	why	table
food		face	within	thanking
hill		fat		to-night
him		girl		wall
inside		goat		win
lay		hall	STEP 10—73%	
May		house	76%	74%
more		lake	add	bid
seeing		late	bear	cap
send		left	calling	eye
sheep		March	card	Feb.
without		off	care	first
work		oil	corn	flat
yes		once	fall	help
		rain	find	hot
		same	four	Jan.
80%		stay	happy	Miss
away		take	hear	nice
boat		very	hold	our
butter			joy	pink
cake			keep	print
cent		77%	kind	real
cut		backing	longer	said
ever		band	low	saw
free		belong	never	seen
lost		blow	park	spent
Monday		cup	pen	to
morning		end	pin	willing
new		fell	plan	yard
no		fine	room	
pig		flower	seed	75%
place		fun	sleep	better
read		grand	spelling	bill
stove		hay	sport	east
sweet		its	stone	forget
went		mad	summer	goldfish
west		now	upon	lived
working		nut	where	lives
		overcoat		many
		papa	75%	myself
become		part	able	net
child		pine	around	nine
hen		ride	banker	noon
milk		rust	cover	open
name		side	dad	river
pie		silk	every	rock
poor		sister	farm	set
rich		snowing	Friday	show
school		son	game	sick

soft  
window  
winter

72%

any  
baker  
blue  
city  
cook  
dance  
die  
dinner  
gate  
head  
helping  
inch  
kiss  
maker  
mate  
mill  
near  
older  
paper  
picking  
post  
rent  
rose  
shot  
store  
thin  
tip  
were  
who  
wide

71%

bird  
brother  
date  
even  
felt  
finding  
forgive  
found  
gone  
kid  
landing  
life  
pick  
plow  
seven  
slow  
stage  
still  
stood  
supper  
telling

washing  
wish

70%

afternoon  
barn  
became  
can't  
children  
cream  
deep  
drive  
dust  
faster  
father  
gray  
heat  
hit  
hog  
hour  
large  
mark  
mud  
oh  
outside  
page  
price  
rest  
round  
sell  
spring  
train  
true  
trust  
water  
wife

STEP 11—66%

69%

ate  
beside  
bit  
clear  
close  
cost  
could  
dress  
drop  
fishing  
given  
ground  
Oct.  
other  
rate  
road  
rug  
saying

step  
test  
wanting

68%

arm  
asking  
bat  
behind  
below  
brand  
bright  
danger  
dark  
fair  
feed  
fit  
June  
lady  
lone  
mail  
north  
nothing  
order  
race  
rolling  
sin  
sit  
spot  
starting  
teach  
teacher  
thinking  
try  
walk  
yourself

67%

art  
banking  
been  
blank  
both  
clay  
Dec.  
fort  
glass  
hair  
however  
master  
Nov.  
plate  
Sat.  
seat  
shut  
something  
stick  
street  
teeth

those  
took  
walking  
which  
white  
wrote  
yellow

66%

adding  
air  
alive  
belonging  
cane  
cattle  
clock  
coming  
done  
don't  
fire  
ford  
form  
garden  
gather  
handed  
holding  
kindly  
leave  
ma  
making  
market  
meal  
pa  
paying  
reading  
report  
stamp  
whatever

65%

added  
author  
bet  
born  
bunch  
cool  
hers  
hunting  
income  
January  
lame  
met  
mind  
move  
right  
rush  
sending  
sort  
south

such	eve	nor	harder
talk	farmer	ours	holder
wake	fear	pass	jump
wild	few	past	kitten
	fight	pencil	looked
ahead	finger	please	meet
64%	July	porch	October
bean	longest	post card	only
buy	luck	posted	pain
camp	mean	rail	pillow
cash	news	raining	pole
class	nose	saved	roll
delay	own	shoe	sis
drum	party	small	sixty
feeding	per	space	someone
handy	poorly	sugar	staying
horse	reader	than	taken
later	rice	their	talking
lift	sack	whenever	while
neck	safe	worker	wonder
next	sink	yearly	wool
pack	sir		
peach	smart	60%	58%
rank	tank	always	army
short	tend	apart	case
slip	thereafter	asked	chop
snowed	tiny	bite	church
storm	trip	block	darling
these	weak	body	December
wet	wishing	cloth	everything
	would	count	forest
65%		cross	gift
also	61%	dream	glove
brick	another	fifty	goose
cast	April	football	half
clean	asleep	great	happen
cooking	blame	job	having
cord	brush	loved	high
dandy	chair	month	leaves
display	coal	nearly	matter
flour	contest	need	pound
fur	corner	none	rained
ha	dead	outfit	seem
held	deal	queen	shade
indeed	dearly	shipment	shall
mouth	died	sunshine	soap
nap	fellow	tie	sorry
roof	hang	Tuesday	stated
sound	hardly	wise	teaching
spend	hearing	won't	thought
taking	herself	yesterday	twenty
track	hole	59%	wash
	inasmuch	across	world
STEP 12—58%	kinder	afloat	world
	know	beat	57%
62%	larger	begin	agree
bringing	list	blood	alone
draft	miss	farming	anyone
eight			

anything  
basket  
bench  
content  
egg  
filling  
fix  
frost  
fruit  
grant  
growing  
kindest  
lie  
liver  
money  
oven  
peace  
reach  
renew  
row  
self  
should  
skate  
slide  
stock  
warm  
wheel

56%

again  
aunt  
belt  
called  
carpet  
check  
clothing  
damp  
enter  
floor  
gladly  
law  
marking  
Mrs.  
nobody  
oats  
orange  
pocket  
printed  
protest  
rabbit  
renter  
silver  
third  
thread  
thus  
tile  
wishes

55%  
birthday  
Christmas  
cleaning  
closer  
evening  
gland  
grandma  
hundred  
lace  
least  
noted  
number  
otherwise  
pair  
planted  
plum  
pull  
pure  
quart  
ranch  
saver  
sew  
snap  
sometime  
speed  
spending  
tested  
worked

STEP 13—50%

54%  
badly  
because  
bought  
brought  
cheer  
chill  
club  
covering  
crop  
dearest  
drill  
everyone  
fee  
grandfather  
himself  
inclose  
invited  
itself  
leg  
less  
load  
lump  
might  
November

oldest  
packing  
passing  
point  
ready  
recall  
rented  
riding  
rod  
says  
sight  
somewhat  
sore  
stranger  
swell  
township  
treat  
use  
wanted  
washed

53%

boxes  
branch  
chart  
earth  
farther  
folk  
grain  
I'll  
inform  
keeping  
mend  
mostly  
penny  
powder  
pride  
quick  
render  
saving  
selling  
sheet  
sooner  
team  
training  
trusting  
welcome  
wheat  
whereby  
worth

52%

above  
battle  
begun  
cared  
chain  
charge  
closed

color  
creep  
deed  
dresser  
heating  
homesick  
hoping  
island  
leader  
learn  
maid  
oblige  
opened  
overlooked  
rack  
shape  
spoke  
stunt  
thankful  
trade  
wage  
Wednesday  
51%  
bother  
bugs  
carry  
counting  
country  
crib  
deliver  
early  
easy  
eighty  
finish  
folder  
former  
forth  
greeting  
hate  
hereafter  
lovely  
lumber  
mailed  
mamma  
paint  
person  
proper  
proud  
railroad  
shed  
soil  
steam  
study  
thick  
throw  
twice  
unless

wagon	tire	speaker	housekeeping
youth	trying	ton	invite
	48%	travel	inviting
booklet	anyhow	trunk	leaf
50%	before	used	learned
brown	Bible	velvet	liked
candle	broke	wire	loaded
depend	copy	46%	loud
does	coy	afraid	painter
grew	drew	almost	pending
grind	feeder	began	played
intend	front	behalf	pleasure
killed	heard	between	plenty
lighting	herewith	chicken	press
lose	higher	closing	reached
maple	hoped	dice	simple
meeting	household	enjoy	sleet
nearer	listed	fail	Thursday
opening	match	fifteen	together
payment	mister	flesh	tried
pools	moment	frame	unable
pretty	picture	funny	waited
remark	post office	grip	weather
seventy	remind	grown	woman
stair	rule	inclosed	wrong
understanding	seal	junk	44%
walked	shame	kindness	beet
weekly	speak	kisses	board
young	stating	laugh	calf
	sum	lesson	cleaned
49%	tax	liberty	company
all right	ticket	living	cotton
bog	turn	maybe	dare
boss	wear	named	Dr.
bottle	47%	neat	everybody
brain	catch	painted	feeling
busy	change	pleased	filled
coffee	cleaner	printer	gas
colt	clever	shortly	harvest
doctor	death	strongest	improve
fence	dread	watch	inches
file	drug	won	joke
forty	garment	woven	joyful
fresh	gee		largest
glee	gown		likewise
granted	iron	STEP 14—42%	membership
handle	knew	45%	newspaper
I'm	main	ans.	odd
lunch	member	anyway	pump
moving	merry	blew	regard
partly	moved	branches	regret
people	needing	broken	retail
printing	nineteen	buying	rubber
renting	remove	demand	scout
September	rip	French	sewing
seventh	sash	getting	sock
sixth	scrap	grove	somewhere

started	sure	gallon	lonely
strike	twelve	hardware	noise
turkey	understand	insert	regarding
voter	worm	knowing	reply
western	you'll	known	reported
writing	41%	latest	seller
wrote	act	meantime	sickness
45%	agent	monthly	utmost
auto	among	nation	weary
charming	ashamed	program	wished
chose	Aug.	raw	
dated	Ave.	settle	
drilling	awhile	sitting	STEP 15—34%
enclosed	cause	slipper	
filing	chairman	taste	37%
finest	cooler	trace	base
handling	delighted	waiting	building
helpful	extent	whom	buyer
hurt	fourth	writer	coach
I'd	fully	Xmas.	comply
idea	heat	59%	deeply
insist	herein	address	delightful
latter	jar	beef	dirty
leather	likely	beg	during
lower	loving	chum	fact
mighty	music	crowd	fairly
office	phone	damage	forward
plain	potatoes	discount	guess
present	power	duty	hare
quite	prize	feel	heavy
recover	profit	knot	hereby
removed	prove	linen	history
running	range	loss	informed
smaller	reaching	manage	join
that's	respond	packed	listen
Tues.	sale	painting	manner
42%	sample	perhaps	minute
afterward	steel	remit	movement
amount	until	retain	namely
birth	wedding	since	ordering
classes	women	slept	organ
friend	40%	suit	ought
glasses	already	therefore	payable
globe	answer	title	prevent
grip	anybody	uncle	provided
handsome	anywhere	visit	quit
hurry	boiler	vote	reason
learning	burn	workmanship	remain
needed	chance	38%	seemed
patch	cloudy	baking	skating
postage	dose	bushel	thereof
quickly	dozen	coin	tight
return	dressed	cottage	trained
Saturday	fifth	debate	whole
second	follow	gotten	witch
Sept.	frankly	greater	withdraw
	fund	limb	worst

36%	haven't	permit	crazy
adjust	highest	raised	earning
backed	inclosing	rushed	elect
bottom	outlined	score	expert
buggy	placing	shoulder	extra
button	remember	soldier	finished
catalogue	serve	waist	forgotten
caused	share	waste	formed
checking	single	wonderful	forwarding
clearly	skirt	zone	hotel
county	strongly	32%	item
cutting	thirty	acting	I've
dancing	toward	build	level
depending	visiting	builder	lining
eighteen	34%	changed	lonesome
field	advise	comfort	narrow
friendly	agreed	debating	ninety
further	break	delivered	parlor
habit	Bro.	desire	picnic
isn't	choose	disposed	proof
lamb	coast	eleventh	recovered
leaving	court	enough	returned
lucky	devoted	exchange	season
mailing	dollar	fourteen	served
misses	figure	froze	shipping
mistake	film	fullest	thousand
nerve	frozen	gum	truly
nevertheless	gravy	greatest	upper
owing	handled	homestead	
pearl	kept	independent	STEP 16—27%
proved	letting	inspect	30%
quarter	performed	labor	advice
ribbon	repeat	lowest	barrel
setting	scale	needle	broad
showed	shopping	nicely	careful
spread	submit	ninth	caught
talked	through	officer	charged
Thanksgiving	value	oversight	cheaper
tired	33%	owe	cheerful
tread	carrying	placed	credit
treated	changing	providing	eager
wait	collar	quiet	else
watching	daddy	reaches	enclose
35%	dealing	server	enjoying
August	dispose	shone	February
awaiting	edge	simply	foolish
bigger	fancy	square	helped
bulk	fever	stuff	invoice
center	fitting	though	nickel
chapter	forwarded	understood	nurse
daily	illness	voting	plainly
enclosing	intended	whether	provide
express	kitchen	31%	raising
failed	lung	absent	recite
family	mass	await	record
fixed	obliged	beaten	scare
	o'clock	clerk	

sign	middle	artist	loan
slight	notice	beyond	offering
struck	passed	bowl	package
vacation	patent	closely	perfect
worry	phoned	continue	piano
29%	pupil	contract	problem
admit	putting	cure	promise
alfalfa	repair	delivery	rainy
answered	saddle	dreadful	recently
breakfast	stayed	ease	renewed
checked	studying	explained	requested
cherries	taught	favor	stories
covered	taxes	force	towel
dealer	touch	gaining	24%
enjoyed	united	gentleman	active
explain	valued	graze	adjustment
extend	voice	health	billed
German	we'll	hence	circus
laid	27%	honest	cousin
Latin	addresses	improving	cripple
losing	aid	limit	dodge
pavement	attend	married	figured
per cent	blessed	preacher	friendship
prevented	booth	properly	furnish
proven	bridge	public	hasn't
queer	carefully	refund	hello
raise	coasting	serving	industry
recent	confined	shock	inst.
recess	contain	spare	interesting
remembering	detail	stamped	lately
request	entry	trouble	management
rough	factory	watched	mention
sire	furnishing	wearing	model
smooth	happened	wondering	obtained
supply	holiday	25%	ordered
temple	including	acted	owned
to-morrow	instead	amply	primary
turned	investment	ankle	prior
unpaid	largely	answering	property
using	loose	balance	rapid
worse	ocean	barley	refuse
yoke	respect	blooming	suitable
28%	returning	captain	text
built	ruin	clothe	whose
cheap	secure	common	wouldn't
colored	standard	control	
consist	statement	cough	STEP 17—21%
decline	suffering	crew	23%
delayed	surprise	dairy	advance
fern	throughout	didn't	aren't
gain	useful	either	breaking
haste	vary	entering	carried
ideal	violin	excuse	cellar
joined	zero	forenoon	contained
ladies	26%	good-bye	containing
locate	aim	greatly	explaining
lovingly	amounting	instant	



formerly  
freeze  
gentlemen  
group  
guide  
headquarter  
interest  
language  
manager  
message  
pastor  
postal  
presented  
slightly  
sorrow  
talent  
treatment

22%

abstract  
actor  
animal  
attending  
bluff  
boarding  
dependent  
earnest  
enroll  
entered  
fare  
firm  
headache  
healthy  
pattern  
publisher  
rye  
seldom  
steady  
studies  
surface  
term  
transit

21%

adopted  
against  
agreeable  
allow  
amendment  
attach  
automobile  
bass  
believe  
burden  
chief  
degree  
desired  
discovered  
English

entertaining  
entire  
ere  
etc.  
except  
flavor  
following  
hurried  
improved  
jury  
maintain  
method  
owner  
promised  
sorrow  
strict  
suppose  
tract  
traveling  
visited  
wasn't  
winner  
written  
you'd  
yourselves

20%

addition  
adjusted  
advantage  
advertised  
alley  
aware  
beauty  
cabinet  
client  
constant  
convention  
decided  
department  
deserve  
direct  
dwelling  
enrolled  
female  
figuring  
fitted  
gained  
growth  
honestly  
honor  
increasing  
limited  
located  
machine  
missed  
modern  
northern

prompt  
quoted  
rapidly  
receive  
refreshment  
rendered  
replying  
require  
search  
silence  
situation  
splendid  
stopped  
weigh

19%

advising  
apply  
argument  
booster  
cigar  
confident  
creamery  
due  
favorite  
fortune  
fuel  
furnace  
furnished  
guest  
handkerchief  
husband  
important  
include  
included  
installed  
ironing  
jobber  
minister  
normal  
obtain  
planning  
pleasant  
promotion  
protected  
question  
realize  
refer  
represent  
required  
satisfied  
select  
settlement  
several  
station  
student  
subject  
support

tattooing  
uniform  
worrying

STEP 18—16%

18%

addressed  
attain  
avenue  
avoid  
butcher  
cartoon  
climate  
companion  
couple  
described  
employed  
enrollment  
example  
final  
information  
intention  
interested  
lecture  
lodge  
mentioned  
notion  
offered  
operated  
popular  
prepared  
procured  
Prof.  
prospect  
raiser  
refused  
republican  
reserve  
safety  
semester  
settled  
slippery  
spirit

17%

although  
benefit  
biggest  
calm  
carrier  
comfortable  
condition  
democrat  
desiring  
effort  
election  
entertainment

expressed	theater	separate	doubt
fault	tickled	valley	exciting
grocery	topic	14%	extended
hadn't	vacant	adventure	famous
human	we've	advertise	followed
instructed	15%	affair	foundation
ivory	advertisement	applied	freight
length	advertising	assist	general
local	altogether	auntie	girlie
loyal	appear	barely	graduating
nature	based	basis	graduation
piece	bracelet	candidate	hair
prepaid	canned	capable	inclined
produce	choice	capital	inspector
really	combination	concluded	location
relation	correct	conduct	meant
rifle	customer	confer	parcel
shipper	cute	consideration	period
sweater	destroyed	continued	personal
weighed	district	copies	positive
16%	drama	course	prefer
ambition	entitle	excited	production
average	equally	expecting	realizing
bargain	expired	factor	salary
blackberries	gasoline	fashion	sanitary
consider	importance	forced	satisfaction
considering	increased	judge	secured
contemplated	international	library	selection
conversation	madam	manufacture	stomach
daughter	manual	operation	success
decide	measure	parent	telegram
depot	meter	product	telephone
directed	misunderstanding	quote	total
direction	moral	relative	welfare
director	mountain	reputation	worthy
discontinued	neglect	Sabbath	12%
disgusted	neither	studied	advanced
doesn't	object	style	assure
education	organized	tanning	attention
entirely	ourselves	view	believing
federal	pardon	weight	central
future	perfectly		coarse
garage	president	STEP 19—12%	college
grateful	publication	13%	complaint
inquiry	published		complete
lbs.	purpose	ache	congratulation
parties	reasonable	action	considered
patron	reduction	advised	constantly
pertaining	regardless	appointment	contrary
prayer	relationship	arrange	convince
promptly	renewal	braid	different
result	requesting	certainly	duties
route	resident	choosing	easily
service	resulting	considerable	elected
shipped	salesman	couldn't	equipment
struggle	satisfactory	credited	exam.
surprised	scarce	disposal	existing

expected	progress	suggested	arranged
failure	reference	treasurer	article
favorable	register	trial	assuring
heretofore	remembered	valuable	attended
inquire	section	volume	attraction
invitation	straight	worried	attractive
justify	surplus		calves
literary	themselves		canvass
niece	10%	STEP 20—8%	carnival
personality	absolute	3%	cashier
preparation	according	absolutely	Christian
prepare	agency	account	cities
priced	appeared	administrator	collect
produced	applicant	arrive	connect
regular	arrived	assured	connected
remedy	attached	banquet	consequently
respectfully	automatic	certain	council
responsible	beginning	choir	current
sense	cement	companies	deposit
signed	commence	composition	description
strawberries	concerning	confirming	design
superintendent	convinced	deliveries	disappointment
transfer	co-operating	democratic	entitled
X-ray	corporation	deserved	exception
11%	crowded	distribution	exceeded
ability	data	earliest	instance
appeal	develop	elsewhere	involved
athletics	directly	establish	literature
awful	engineer	established	machinery
calendar	envelope	examination	merit
capacity	exactly	extensive	mortgage
cedar	exhibit	factories	ordinary
concern	fabric	funeral	particular
concert	grammar	genuine	preliminary
conference	happiness	geography	preparing
congratulate	hesitate	hailed	prevail
correction	hospital	honorable	proceed
courage	indicate	improvement	recommend
curtain	influence	neighborhood	representation
duplicate	instruct	nervous	requirement
durable	internal	obligation	resigned
employee	investigation	organize	satisfactorily
entertain	justified	practice	satisfy
evidently	million	quality	secretary
explanation	neglected	received	signature
ghost	nephew	registration	suggest
identify	noticed	reliability	supplied
increase	policy	relieve	supplies
installment	presume	selected	universal
institution	private	strength	7%
label	proposition	subscriber	additional
liquid	rec'd	thesis	allowed
mere	reduced	thorough	application
opera	registered	union	assistant
position	regulation	8%	attempt
possess	reliable	absence	authorized
possible	securing	acre	brief

channel	submitted	similar	privilege
collection	supposed	society	process
completely	terrible	succeeded	prosperous
confidence	urge	universities	readily
connection	weren't	variety	regularly
co-operation	wholesale	vision	serious
cushion			social
dangerous	STEP 21—6%	5%	subscription
debt	6%	accordance	successful
destination	accept	acknowledge	surgery
difference	accomplish	acquire	sympathy
division	agricultural	allotment	timothy
employer	announce	alumni	type
exact	assigned	anniversary	usual
exceptional	assortment	anxious	
excitement	ballot	attorney	
exercise	bulletin	available	STEP 22—4%
expense	celebrate	awfully	4%
expensive	circuit	bonus	acceptance
expression	circular	citizen	accident
extreme	collecting	commerce	acquainted
feature	communication	committee	actual
fraternally	community	constitution	advancement
furniture	compelled	contemplating	affectionately
graduate	confirm	conveniently	algebra
hastily	correspond	correctly	annual
illustrated	correspondent	correspondence	appearance
inducement	decrease	coupon	appointed
instruction	demonstrated	difficulty	appreciated
insurance	disagreeable	domestic	assignment
introduced	disagreeable	doubtless	assistance
legal	engineering	effect	assume
legislation	error	electrical	assurance
magazine	estimated	examine	blizzard
medicine	evidence	exclusively	bureau
musical	excess	fashionable	business
national	experience	federation	certificate
notary	fierce	generally	character
notify	frequently	glorious	circulation
occupied	geometry	government	circumstances
operating	gratitude	humor	conclusion
opinion	guaranteed	illustrating	connecting
organization	hustling	immediate	conservatory
patient	imagine	immediately	considerably
permanent	junior	impossible	convenience
possibly	knowledge	inconvenience	cordially
practical	material	inquires	crocheting
probably	mental	issue	customary
profession	merchandise	issued	decision
receiving	merely	judgment	definitely
reception	neighbor	liable	development
reduce	numerous	liberal	disease
remembrance	original	moderate	efficient
reservation	planned	notified	electricity
rural	quantity	occasion	enthusiasm
special	referring	official	epidemic
strengthened	remittance	politics	examined
	representative	principle	

excellent  
executed  
executive  
exhausted  
familiar  
finally  
generous  
illustration  
instructor  
investigate  
journal  
materially  
naturally  
opportunity  
personally  
physician  
practically  
premium  
principal  
profitable  
purchased  
qualities  
quotation  
recommendation  
referred  
response  
science  
series  
sincere  
strictly  
succeed  
sufficient  
superior  
system  
thoroughly  
transportation  
unusually  
various

3%

accommodate  
accordingly  
activity  
affidavit  
approval  
approved  
arrangement  
arrival  
arriving  
assessment  
association

attendance  
civics  
convenient  
cordial  
corrected  
definite  
difficult  
disappoint  
discourage  
efficiency  
encourage  
enormous  
equipped  
especially  
examiner  
exhibition  
extension  
favorably  
guarantee  
impression  
instrument  
interfere  
librarian  
manufacturing  
practicing  
presence  
purchase  
receipt  
relieved  
remained  
sincerely  
solicit  
specification  
stationary  
supervision  
territory  
usually  
vicinity  
zephyr

STEP 23—2%

accompanying  
accredited  
actually  
administration  
admission  
agricultural  
announcement  
anticipating

appreciate  
assembly  
auditor  
authority  
campaign  
candidacy  
commercial  
commission  
commissioner  
compliment  
consequence  
construction  
consultation  
co-operative  
crochet  
demonstration  
disappointed  
enthusiastic  
financial  
gradually  
grippe  
immense  
inferior  
institute  
introduced  
lieutenant  
mechanical  
natural  
necessity  
originally  
particularly  
previous  
professional  
prosperity  
regretting  
rheumatism  
source  
substitute  
supervisor  
unnecessary  
unusual

STEP 24—1%

accomplished  
acquaintance  
ambitious  
analysis  
annually

apparatus  
appendicitis  
appreciation  
associate  
associated  
attitude  
characteristic  
chautauqua  
confirmation  
continuous  
courteous  
exceptionally  
extremely  
fundamental  
Hallowe'en  
individual  
ingredients  
leisure  
majority  
maturity  
necessary  
orchestra  
pneumonia  
politician  
possibility  
quantities  
resource  
responsibility  
schedule  
senior  
soliciting  
specially

STEP 25—0%

advisable  
anticipate  
appreciating  
essential  
foreign  
fortunate  
license  
occasionally  
peculiarities  
phosphorus  
physical  
possession  
scientific  
tuberculous



**SECTION XI**

**THE IOWA SPELLING SCALE**

**GRADE IV**

## GRADE IV

STEP 1—100%		hand	why	had
all		in	wind	hat
at		into	your	head
did		last		Jan.
dog		let	96%	longer
me		letter	an	pay
thank		may	cake	place
thing		mother	cent	poor
to-day		must	city	ring
		not	corn	river
		old	down	same
		on	five	send
STEP 2—99%		one	food	some
and		over	free	summer
are		say	going	sweet
big		she	gold	table
book		that	hard	then
but		think	her	time
day		this	how	to-night
dear		way	live	us
good		when	looking	wish
have		will	man	work
he		with	my	working
his			read	94%
is			reader	
it			red	am
land		STEP 4—96%	sand	bad
like		97%	south	bed
little		apple	tell	bee
look		bell	ten	cannot
May		butter	we	coat
out		by		end
run		cook	STEP 5—94%	fast
see		door	95%	faster
ship		eat		Feb.
tree		green	about	for
up		ice	after	has
was		if	age	him
what		left	ago	just
year		love	baby	kind
you		made	bank	king
		make	bill	Monday
		milk	box	Nov.
STEP 3—98%		night	dark	of
as		said	date	papa
away		school	dinner	pig
be		six	do	play
boy		snow	doing	real
can		state	east	ride
come		Sunday	ever	road
each		them	face	Sat.
get		they	foot	seeing
give		three	from	silk
go		top	frost	stove
got		under	gave	sun



till  
two  
wall  
where  
wood  
yet

STEP 6—92%

95%

along  
ask  
black  
blank  
call  
child  
clean  
clock  
could  
cow  
cut  
eye  
home  
hot  
however  
inside  
kiss  
lake  
life  
light  
Mr.  
much  
name  
near  
never  
nice  
number  
Oct.  
off  
once  
overcoat  
playing  
price  
rich  
room  
store  
thinking  
toy  
walking  
well  
who  
winter  
yard  
  
art  
aside  
back

92%

ball  
below  
best  
bird  
blow  
card  
cat  
clear  
cold  
cream  
cup  
far  
farm  
feet  
found  
fun  
fur  
hall  
happy  
hear  
inch  
joy  
lady  
large  
lay  
lived  
lot  
March  
mark  
more  
mouth  
move  
no  
note  
October  
oil  
report  
rest  
saw  
small  
stage  
stand  
telling  
thanking  
told  
town  
want  
week  
yellow

91%

air  
band  
banker  
bay  
belong  
beside  
better

blue  
came  
coal  
cover  
fat  
forget  
game  
girl  
gone  
hang  
help  
house  
ink  
July  
June  
keep  
kid  
looked  
lost  
low  
nine  
noon  
open  
page  
park  
pen  
post  
put  
rain  
reading  
sat  
sell  
sent  
show  
side  
singing  
sister  
so  
sport  
standing  
stay  
stick  
supper  
there  
trip  
very  
water  
while  
win  
window  
yes

STEP 7—88%

90%

any  
around

bunch  
cap  
car  
case  
country  
delay  
drive  
fellow  
fill  
fine  
gate  
goldfish  
grade  
helping  
hill  
hog  
horse  
hour  
hunt  
late  
long  
meat  
most  
next  
nut  
outside  
peach  
people  
pie  
plow  
saying  
shop  
snowed  
song  
spent  
sunshine  
take  
took  
walk  
war  
wash  
went  
whatever  
wife  
without  
worker  
write  
  
bake  
bear  
deep  
earth  
fell  
felt  
flat  
forgot  
grass

89%

ground	mail	sugar	stood
hen	maker	taking	street
ill	market	tank	teacher
larger	meal	teaching	wild
leave	mine	trunk	wishing
lunch	money	wheel	85%
new	mud		adding
north	now	STEP 8—84%	also
oh	or	86%	barn
older	our		bean
part	pick	block	boat
paying	pin	body	camp
rock	rail	cattle	colder
sheep	rent	clay	dead
sir	rice	close	deal
snowing	row	count	don't
such	seat	crop	feed
taken	seen	dad	first
teach	set	dandy	fort
test	shipment	December	glass
the	son	die	January
weak	stop	dust	job
willing	tent	eight	know
within	train	farmer	leg
word	trust	fishing	many
would		flower	mate
yourself	add	gather	music
88%	added	hay	nobody
able	asking	heat	plan
afternoon	bat	holding	race
alive	because	inasmuch	reach
arm	become	master	recall
asked	being	mill	rust
banking	brand	Miss	sad
basket	bright	neck	saved
born	brother	nothing	seven
bring	calling	oats	shall
can't	class	order	short
care	danger	outfit	should
children	egg	oven	slow
dance	fire	pine	staying
dress	fish	point	talking
drop	form	porch	tenth
early	glee	pure	trying
even	lives	quick	upon
fall	luck	railroad	washing
finding	meet	round	watch
Friday	morning	sack	wheat
grand	myself	seed	wool
handy	net	sick	84%
here	paper	smart	above
hold	party	space	battle
hunting	plate	spot	been
landing	print	spring	birthday
law	sleep	stamp	bringing
loved	spell	starting	brought
mad	step	still	brown

catch  
chair  
church  
forgive  
four  
glad  
island  
kill  
kindly  
lesson  
longest  
ma  
other  
ours  
own  
pink  
pocket  
pole  
recover  
sink  
spelling  
start  
stone  
than  
too  
true  
Tuesday  
warm  
washed  
won't  
yearly

83%

April  
behind  
cared  
carpet  
cash  
cooking  
cost  
counting  
dearly  
draft  
every  
farming  
father  
finger  
forest  
glove  
great  
grove  
half  
harvest  
hole  
kitten  
lump  
please  
printed

remove  
renew  
rush  
shoe  
sixty  
someone  
sound  
speaker  
thin  
thus  
to  
were  
whenever  
wide

82%

agree  
anyone  
Aug.  
aunt  
backing  
became  
blame  
bought  
boxes  
buy  
charge  
Christmas  
died  
done  
football  
given  
grandma  
grant  
gray  
hardly  
hearing  
heating  
held  
hit  
kinder  
making  
might  
moved  
paint  
pass  
passing  
person  
picking  
rate  
remark  
right  
safe  
sit  
soil  
sold  
sometime  
sort

speak  
talk  
tip  
twenty  
unless  
used  
velvet  
wet  
white  
worked  
world

STEP 9—79%

81%

again  
ahead  
another  
belonging  
blood  
boss  
bother  
cane  
cleaner  
clothing  
contest  
dearest  
death  
display  
doctor  
dresser  
evening  
fifty  
fight  
ford  
hair  
harder  
having  
homesick  
inclose  
later  
lone  
noted  
patch  
post card  
reenter  
rose  
shot  
sin  
soon  
sum  
swell  
these  
thick  
thought  
travel  
weather

wonder  
yesterday

80%

alone  
always  
apart  
ate  
bet  
between  
Bible  
board  
both  
broke  
change  
cool  
cord  
covering  
cross  
drum  
eve  
everyone  
fair  
find  
floor  
follow  
granted  
herewith  
high  
I'm  
inches  
income  
learned  
less  
listed  
liver  
load  
maid  
mailed  
mean  
nap  
none  
pa  
pain  
per  
plum  
rained  
removed  
shape  
sight  
slip  
sorry  
started  
tie  
wagon  
wake  
wanted

wear	list	saver	75%
young	lumber	sixth	bit
asleep 79%	marking	something	blew
begin	matter	thereafter	branch
behalf	nation	thousand	chart
cleaning	nearly	tiny	chop
darling	neat	try	closer
deed	officer	which	crib
feeding	otherwise	whole	does
fence	overlooked	worth	dollar
fit	pound	STEP 10—73%	drug
former	printer	76%	everybody
garment	proper	afterward	glasses
goat	roof	amount	heard
ha	sample	beg	holder
handed	sending	bench	I'll
handle	seventh	bite	intend
invited	shade	calf	keeping
its	silver	clever	kindest
jump	size	depend	liberty
leather	somewhere	dream	lovely
mend	speed	drew	merry
pack	spending	enough	mighty
queen	spoke	flour	month
raining	stock	forth	Mrs.
rank	sure	fresh	need
riding	Thursday	gallon	newspaper
self	trade	grew	office
shut	twice	happen	pair
simple	welcome	hurt	picture
skate	wrote 77%	idea	pillow
soap	brick	jar	proud
storm	brush	killed	provide
stranger	carry	met	rack
teeth	check	nose	rented
thankful	closed	painted	rip
use	colt	pools	rolling
walked	damp	press	rubber
wire 78%	Dec.	pride	scout
across	file	program	seem
beat	friend	prove	seventy
belt	garden	renting	shortly
burn	goose	sash	smaller
called	grain	selling	soft
cheer	himself	Sept.	steel
cloth	labor	September	stunt
club	lace	steam	team
coming	leader	their	treat 74%
company	member	ticket	act
dozen	miss	tire	ans.
fail	only	unable	anyway
grandfather	pencil	understanding	bottle
hundred	posted	wedding	chance
largest	printing	wise	chicken
lift	ready	wishes	cotton
	rug	woven	fact

farther	inspect	bushel	meeting
field	iron	cast	named
folder	likewise	center	noise
gladly	payment	discount	oblige
guess	peace	during	plain
heavy	pleased	eighty	raised
herself	remain	elect	ranch
joke	returned	fee	reason
kisses	scrap	feeling	repair
leaves	seal	folk	rushed
match	spend	froze	talked
mostly	study	funny	trained
news	temple	gain	won
November	vote	hate	wrong
ocean	wanting	household	Xmas
oldest	whereby	lame	
ordering		latter	
phone	acting 72%	least	STEP 11—66%
post office	agent	living	69%
quart	anywhere	loaded	afraid
rabbit	army	mailing	among
reached	classes	moment	Ave.
rule	cleaned	moving	badly
shame	content	ought	began
sis	dare	packed	brain
sock	deliver	partly	candle
somewhat	drill	pending	cloudy
tend	fear	prevent	court
those	getting	pull	dated
tile	gift	render	drilling
together	gown	return	family
trace	improve	rough	finish
track	indeed	saving	fourth
twelve	kindness	sickness	French
uncle	maple	slide	gee
understand	o'clock	stated	grind
voter	odd	tested	handling
west	planted	thirty	higher
witch	postage	trusting	hoped
	protest	visit	kitchen
	providing	wished	leaf
almost 73%	pump		mistake
anything	roll	anyhow 70%	nearer
awhile	seemed	bog	nicely
building	shed	booklet	nor
coffee	sore	coast	orange
county	thread	copy	past
dread	ton	corner	perfect
dressed	township	depending	range
easy	turn	enclose	sale
enter	wage	filled	settle
everything		flesh	sewing
failed	answer 71%	formed	snap
front	ashamed	itself	strongly
fruit	bid	junk	suit
grown	branches	learn	title
heap	build	main	withdrew
inclosed			

writer	joined	65%	message
zone	lighting		mountain
68%	locate	absent	phoned
broad	lung	before	picnic
broken	meantime	bugs	played
busy	mind	builder	prize
cause	needle	chairman	raising
demand	nurse	cheap	shipping
enjoyed	obliged	coin	shoulder
filling	payable	colored	shown
forward	plenty	contain	strike
globe	pretty	delivered	treated
greater	slipper	dose	until
greeting	third	frame	valued
growing	through	fully	weekly
health	turkey	gland	writing
hers	value	grit	zero
kept	western	handled	63%
knew	wonderful	highest	auto
knowing		hoping	await
known	66%	hurry	checking
laugh	afloat	inviting	delighted
letting	all right	learning	edge
perhaps	beaten	leaving	excuse
placing	chain	lowest	feeder
poorly	chose	ordered	figure
powder	coy	painter	finest
raw	dispose	parlor	fitting
respond	enjoy	present	handsome
Saturday	fancy	produce	hare
says	favor	retail	helped
since	fifteen	serve	ivory
stating	frankly	share	mister
strongest	gas	single	monthly
waist	history	sooner	opened
women	joyful	square	pearl
worm	lie	taught	penny
67%	liked	tax	reaches
already	lucky	training	regard
August	membership	understood	sitting
beef	nerve	weary	steady
bottom	opening	64%	waiting
changed	owned	breakfast	youth
changing	packing	chapter	
cottage	power	closing	STEP 12—58%
dealing	proved	earning	62%
dice	provided	extent	birth
expert	remind	extra	breaking
express	spread	fix	chill
few	stair	freeze	chum
haven't	that's	frozen	contract
helpful	throw	hotel	cooler
hereafter	vacation	inclosing	cough
housekeeping	voice	inform	cousin
including	waited	informed	Dr.
invite	you'll	join	enclosed
		lamb	

explain  
fifth  
fitted  
forwarding  
greatest  
hardware  
herein  
knot  
level  
manage  
painting  
quickly  
reaching  
refuse  
rod  
score  
station  
stuff  
thereof  
to-morrow  
wait  
workmanship

61%

blessed  
charming  
cheerful  
clearly  
dairy  
dirty  
disposed  
duty  
extend  
friendly  
insist  
located  
loud  
lower  
piano  
reply  
sheet  
showed  
stamped  
subject  
though  
Tues.  
visited  
worse

60%

adjust  
advise  
awaiting  
Bro.  
built  
checked  
color  
comply  
direct

ease  
improved  
intended  
invoice  
listen  
lonesome  
loss  
mamma  
mass  
measure  
middle  
nature  
offering  
owe  
rapid  
recovered  
repeat  
retain  
scare  
setting  
settlement  
sew  
skating  
tread  
tried

59%

anybody  
appear  
capital  
caught  
covered  
crowd  
daughter  
exchange  
fixed  
following  
force  
forwarded  
headquarter  
hence  
limb  
loving  
manner  
namely  
pattern  
pavement  
per cent  
performed  
placed  
proven  
quit  
quite  
record  
request  
requesting  
respect  
woman

58%

address  
agreed  
base  
carried  
caused  
coasting  
collar  
comfort  
cure  
damage  
delightful  
detail  
fever  
fourteen  
guide  
habit  
illness  
I've  
ladies  
language  
linen  
lovely  
narrow  
needing  
nineteen  
obtain  
organ  
season  
suffering  
Thanksgiving  
throat  
united  
voting

57%

answering  
beet  
beyond  
bridge  
crazy  
crew  
deeply  
delayed  
eager  
eighteen  
eleventh  
finished  
further  
homestead  
honest  
husband  
latest  
lose  
married  
misses  
needed  
prevented

profit  
public  
shock  
surprised  
taxes  
turned  
waste  
watching

56%

actor  
although  
baking  
boiler  
buying  
cheaper  
confined  
contained  
daily  
dancing  
dealer  
feel  
figured  
foolish  
furnish  
German  
happened  
I'd  
improving  
instead  
movement  
package  
quarter  
refund  
regarding  
reported  
saddle  
sign  
slept  
tired  
useful  
Wednesday  
whom

55%

amounting  
answered  
backed  
boarding  
buggy  
bulk  
charged  
choose  
crippled  
debate  
decline  
discovered  
enjoying  
explained

fairly  
gotten  
grip  
industry  
isn't  
lecture  
neglect  
nevertheless  
notice  
plainly  
pleasure  
production  
properly  
regret  
require  
suitable  
surface  
worst

dodge  
fund  
future  
germ  
holiday  
insert  
ninth  
presented  
primary  
proof  
ribbon  
scale  
struck  
supply  
suppose  
wearing  
wouldn't  
yoke

enrolled  
excited  
film  
fullest  
graze  
investment  
length  
maintain  
outlined  
Prof.  
property  
rainy  
remained  
remembering  
renewed  
server  
weigh  
worry  
written

forenoon  
garage  
gentleman  
greatly  
lbs.  
loose  
notion  
potatoes  
promised  
queer  
quoted  
shopping  
silence  
sorrow  
surprise  
throughout  
trial  
upper  
valley

## STEP 13—50%

54%

aid  
aim  
barrel  
begun  
correct  
directed  
except  
flavor  
friendship  
gaining  
gravy  
include  
intention  
loan  
obtained  
owing  
permit  
raise  
second  
seller  
spare  
tight  
watched  
winner  
yourselves

53%

adopted  
bigger  
bowl  
buyer  
continue  
creep  
cutting  
desire

abstract  
advance  
ample  
chief  
debating  
else  
entering  
fuel  
furnishing  
headache  
hello  
item  
likely  
machine  
maybe  
model  
oversight  
passed  
perfectly  
postal  
requested  
secure  
seldom  
stayed  
studies  
submit  
therefore  
treatment  
trouble  
unpaid

51%

action  
attend  
balance  
beauty  
coach  
daddy

awful  
careful  
clerk  
closely  
conduct  
entertaining  
entry  
factory  
February  
loyal  
minute  
northern  
noticed  
pupil  
rapidly  
served  
sleet  
standard  
statement  
truly  
using  
wondering

50%

advice  
alley  
ankle  
biggest  
burden  
butcher  
captain  
consist  
containing  
delivery  
election  
example  
expressed

49%

adjustment  
animal  
avenue  
aware  
break  
calm  
central  
concluded  
degree  
deportment  
dreadful  
either  
fern  
filing  
gasoline  
hereby  
judge  
lately  
niece  
parcel  
prospect  
putting  
recently  
recess  
recite  
returning  
settled  
skirt  
smooth  
splendid  
stories  
taste  
topic  
traveling  
visiting

48%



47%	addition	we've	ere	losing
	admit	whose	explaining	manufacture
	aren't	worried	forced	minister
	cabinet	worthy	furnace	missed
	cherries		instant	object
	due	STEP 14—42%	jobber	parties
	fare	45%	jury	piece
	lodge		mentioned	preparing
	patent	against	normal	publisher
	pleasant	artist	pardon	reduced
	quiet	companion	parent	refreshment
	strict	considering	popular	relation
	touch	couple	rendered	represent
	toward	exciting	reputation	result
	uniform	fault	term	rifle
	whether	figuring	utmost	scarce
		lining		situation
46%		prompt	42%	worrying
	account	question	allow	
	acted	studied	circus	40%
	active	weight	complete	agreeable
	addresses	44%	convention	barley
	attending	automobile	duties	blackberries
	bass	booth	English	catalogue
	bluff	carefully	expected	creamery
	booster	carrying	fashion	desired
	button	conversation	gentlemen	desiring
	climate	destroyed	grocery	expired
	clothe	final	included	gained
	credit	growth	information	healthy
	enclosing	handkerchief	laid	hospital
	entered	honestly	location	inquire
	entertainment	human	recent	local
	forty	independent	shipped	offered
	hasn't	modern	slightly	pastor
	honor	neighborhood	sweater	preacher
	increasing	prepaid	view	prepare
	mention	problem	violin	promptly
	pertaining	replying	41%	realize
	progress	required	addressed	reduce
	promotion	ruin	apply	remember
	refused	serving	blooming	running
	regulation	shipper	condition	struggle
	relationship	soldier	contemplated	vary
	rye	union	dependent	39%
	satisfied	43%	different	arrange
	service	advertised	drama	believe
	several	arrive	dwelling	candidate
	sire	average	elected	carrier
	student	control	entertain	comfortable
	studying	debt	extended	common
	text	depot	famous	complaint
	tickled	decision	favorable	constant
	towel	earnest	ideal	director
	weighed	effort	important	factor
	we'll	entirely	interested	failure
			liquid	female

group  
haste  
installed  
ironing  
machinery  
manager  
operated  
product  
promise  
protected  
remit  
reserve  
success  
supplied  
you'd

38%

advanced  
alfalfa  
bargain  
billed  
cement  
cigar  
confident  
convince  
curtain  
describe  
didn't  
employed  
firm  
forgotten  
limit  
lovingly  
manual  
method  
really  
resulting  
simply  
slippery

STEP 15—34%

37%

ache  
acre  
argument  
attention  
choice  
current  
cute  
decide  
deserve  
discontinued  
doesn't  
domestic  
exact  
exactly  
feature

hurried  
inclined  
interest  
priced  
produced  
quote  
register  
republican  
talent  
telephone  
tract  
transit

36%

advantage  
adventure  
advising  
avoid  
calves  
cellar  
considered  
couldn't  
courage  
data  
easily  
entitle  
formerly  
furnished  
increased  
international  
Latin  
limited  
management  
owner  
prepared  
receive  
select  
supposed  
transfer  
treasurer

35%

attach  
attached  
crowded  
decided  
doubt  
expecting  
factories  
fierce  
guest  
hadn't  
madam  
position  
prayer  
private  
represented  
resident

respectfully  
strawberries

34%

appeal  
awfully  
capable  
certain  
cities  
college  
consider  
continued  
convinced  
deserved  
foundation  
instruct  
instructed  
mere  
moral  
neglected  
neighbor  
prevail  
procured  
reduction  
reliable  
section  
separate  
source

33%

bracelet  
channel  
composition  
congratulate  
customer  
democrat  
education  
enroll  
entire  
favored  
happiness  
importance  
improvement  
library  
period  
realizing  
search  
secured  
securing  
slight  
tattooing  
total  
vision

32%

adjusted  
advertise  
applied  
arranged

arrived  
braid  
district  
exam.  
general  
geography  
increase  
largely  
opera  
opinion  
positive  
published  
satisfactory  
signed  
style  
succeeded  
themselves  
valuable

31%

accomplish  
advertising  
attain  
believing  
calendar  
combination  
constantly  
corrected  
dangerous  
disgusted  
followed  
graduation  
hailed  
heir  
liberal  
million  
misunderstanding  
neither  
ninety  
operation  
organized  
ourselves  
personal  
raiser  
regardless  
regular  
remedy  
selected  
stomach  
straight  
vacant

STEP 16—27%

30%

according  
advancement  
advised

appointed  
appointment  
attended  
automatic  
banquet  
cartoon  
connected  
connecting  
copies  
corporation  
credited  
directly  
excess  
exercise  
favorite  
federal  
funeral  
inspector  
inst.  
moderate  
nickel  
particular  
patron  
proceed  
publication  
reference  
reservation  
route  
suggested  
theater  
wasn't

29%  
accordingly  
affair  
altogether  
ambition  
amendment  
benefit  
cashier  
collect  
concern  
connect  
course  
etc.  
examined  
expression  
ghost  
humor  
instance  
internal  
justified  
literary  
medicine  
planning  
refer  
system  
wholesale

28%  
appeared  
approved  
beginning  
Christian  
commence  
correction  
correctly  
direction  
earliest  
exception  
hesitate  
interesting  
nervous  
prior  
purpose  
representation  
requirement  
safety  
strength  
submitted  
transportation

27%  
auntie  
based  
companies  
conference  
contrary  
democratic  
develop  
difference  
extensive  
fortune  
gratitude  
issue  
legal  
manufacturing  
nephew  
president  
presume  
registration  
resource  
Sabbath  
satisfy  
spirit  
superintendent  
support  
telegram

26%  
attraction  
barely  
cedar  
coarse  
concerning  
concert  
confirming

deposit  
engineering  
freight  
good-bye  
graduating  
issued  
notify  
obligation  
personality  
prefer  
quality  
reasonable  
relative  
remembered  
rural  
sense  
stationary  
stopped  
supplies

25%  
advertisement  
author  
canned  
confer  
disposal  
doubtless  
effect  
evidently  
influence  
inquiry  
junior  
liable  
meant  
musical  
organize  
permanent  
purchase  
reception  
selection  
semester  
serious  
society  
strictly  
volume

24%  
assist  
ballot  
employer  
examine  
existing  
generous  
heretofore  
imagine  
impossible  
justify  
national  
process

resigned  
salesman  
secretary  
series  
suggest  
tanning  
X-ray

STEP 17—21%

23%  
absence  
absolute  
arriving  
article  
client  
collecting  
connection  
deliveries  
difficulty  
engineer  
enrollment  
experience  
frequently  
furniture  
graduate  
grateful  
label  
occupied  
possible  
possibly  
practicing  
purchased  
quotation  
receiving  
registered  
salary  
subscription  
succeed

22%  
accent  
athletics  
business  
choir  
collection  
compelled  
consequently  
consideration  
co-operating  
coupon  
demonstrated  
design  
durable  
envelope  
equipment  
explanation  
fabric

genuine  
hustling  
inquires  
installment  
insurance  
investigate  
involved  
satisfaction  
timothy

21%

actual  
admission  
assured  
celebrate  
construction  
decrease  
discourage  
establish  
established  
hastily  
investigation  
mental  
merchandise  
patient  
policy  
practice  
qualities  
reliability  
renewal  
sanitary  
signature  
variety

20%

allowed  
assistant  
basis  
brief  
carnival  
commerce  
confidence  
cushion  
destination  
elsewhere  
examiner  
identify  
instruction  
introduction  
judgment  
legislation  
magazine  
natural  
politics  
preparation  
receipt  
regularly  
superior

supervision  
surplus  
type  
appearance  
application  
arrangement  
attempt  
choosing  
circulation  
citizen  
considerably  
correspond  
crochet  
difficult  
distribution  
equally  
excitement  
expensive  
federation  
numerous  
preliminary  
quantity  
relieved  
straightened  
subscriber  
sympathy  
urge

19%

STEP 18—16%

18%

ability  
accident  
agriculture  
algebra  
announce  
assembly  
assessment  
attendance  
authorized  
certainly  
consequence  
conservatory  
considerable  
convenient  
council  
decision  
development  
examination  
girlie  
inferior  
institution  
introduced  
knowledge  
meter

planned  
probably  
relieve  
representative  
responsible  
universal

17%

administrator  
conclusion  
congratulation  
description  
disappoint  
estimated  
excellent  
government  
inconvenience  
indicate  
inducement  
librarian  
notified  
operating  
presence  
proposition  
prosperous  
readily  
received  
regretting  
terrible  
weren't

16%

alumni  
arrival  
assortment  
assure  
attractive  
available  
capacity  
circular  
crocheting  
electrical  
entitled  
epidemic  
evidence  
exclusively  
fashionable  
grammar  
individual  
invitation  
merely  
rec'd  
remembrance  
remittance  
successful  
supervisor  
territory  
welfare

15%

agency  
allotment  
announcement  
assignment  
assistance  
assuring  
attorney  
electricity  
encourage  
exceptional  
extreme  
familiar  
generally  
geometry  
grippe  
instructor  
instrument  
literature  
notary  
ordinary  
possess  
practical  
previous  
profitable  
referring  
special  
surgery  
usual

14%

absolutely  
additional  
auditor  
blizzard  
completely  
consultation  
expense  
foreign  
fundamental  
gradually  
honorable  
mortgage  
occasion  
quantities  
thesis  
sincere

STEP 19—12%

13%

applicant  
association  
assume  
canvass  
communication  
constitution  
co-operative

cordial	physical	committee	guarantee
demonstration	privilege	continuous	maturity
disagreeable	recommend	definite	responsibility
duplicate	specification	definitely	5%
employee	thorough	fortunate	accredited
finally	usually	Hallowe'en	attitude
illustrated	10%	immediately	convenience
impression	assurance	interfere	courteous
necessity	bonus	occasionally	efficient
organization	circumstances	original	essential
premium	commercial	principal	exceptionally
profession	enthusiastic	prosperity	physician
senior	executive	tuberculosis	professional
social	fraternally	unusual	science
12%	guaranteed	7%	specially
acquainted	journal	actually	sufficient
agricultural	possession	affidavit	various
anxious	practically	analysis	STEP 22—4%
bulletin	recommendation	appreciated	4%
compliment	response	appreciation	acquaintance
co-operation	satisfactorily	commissioner	appreciating
disease	STEP 20—8%	conveniently	associate
error	9%	cordially	chautauqua
executed	accompanying	exhibition	commission
exhibit	accomplished	extremely	community
glorious	activity	institute	financial
majority	advisable	materially	ingredients
merit	affectionately	necessary	license
naturally	annual	official	rheumatism
orchestra	approval	originally	solicit
similar	assigned	personally	thoroughly
university	associated	phosphorus	3%
unusually	certificate	pneumonia	anticipating
11%	circuit	possibility	bureau
acquire	equipped	referred	efficiency
administration	extension	soliciting	lieutenant
anniversary	illustration	unnecessary	politician
confirm	immediate	vicinity	schedule
contemplating	leisure	zephyr	sincerely
correspondent	mechanical	STEP 21—6%	STEP 23—2%
customary	principle	6%	appendicitis
disappointed	substitute	accommodate	STEP 24—1%
disappointment	8%	acknowledge	anticipate
enormous	acceptance	ambitious	apparatus
exhausted	accordance	appreciate	peculiarities
favorably	annually	candidacy	scientific
illustrating	authority	confirmation	STEP 25—0%
immense	campaign	correspondence	characteristic
material	character	enthusiasm	
opportunity	civics	especially	
particularly			



**SECTION XII**

**THE IOWA SPELLING SCALE**

**GRADE V**

## GRADE V

### STEP 1—100%

all  
and  
at  
baby  
book  
but  
come  
day  
good  
got  
hand  
have  
he  
her  
his  
how  
is  
it  
let  
lot  
may  
old  
read  
run  
say  
see  
this  
three  
up  
we  
what  
will  
wish  
with  
wood  
year  
your

corn  
could  
dear  
did  
dinner  
door  
dress  
each  
every  
fast  
fish  
five  
game  
go  
going  
happy  
hard  
home  
hunt  
in  
July  
kind  
lake  
land  
last  
letter  
like  
little  
long  
look  
love  
make  
man  
May  
Monday  
mother  
must  
my  
not  
Nov.  
on  
out  
over  
place  
play  
rich  
said  
seven  
she  
ship  
snow  
state  
tell

thank  
that  
thing  
think  
top  
under  
was  
way  
winter  
work

park  
saw  
saying  
school  
show  
silk  
so  
south  
spend  
spring  
store  
taken  
ten  
the  
them  
then  
train  
walking  
wall  
why  
would  
yet  
yourself

### STEP 3—98%

add  
am  
away  
bank  
bell  
bill  
box  
bring  
cake  
calling  
car  
care  
cash  
clear  
dark  
do  
dog  
east  
feet  
food  
foot  
from  
gate  
gold  
had  
hay  
head  
help  
however  
ice  
if  
inside  
into  
just  
day  
men  
much  
nine  
oil  
one

### STEP 4—96%

97%

about  
after  
ago  
along  
apple  
asking  
back  
bed  
bee  
blow  
brother  
butter  
city  
class  
clean  
count  
cow  
cut  
dance  
date  
down  
earth  
end  
fall  
farm  
fat

### STEP 2—99%

age  
are  
ball  
barn  
be  
big  
boy  
by  
call  
came  
can  
card



fell	time	half	working
fire	to-day	hall	yard
free	to-night	heat	
gave	two	hen	STEP 5—94%
get	us	hill	96%
give	very	hold	
grade	walk	inch	added
has	wash	joy	afternoon
hat	well	king	art
hot	whatever	large	asked
ill	where	late	backing
ink	white	lost	banking
June	who	mail	bay
kindly	within	market	bean
left	world	mean	below
light	you	mill	beside
live		move	black
longer	adding	note	blank
looking	an	number	boat
made	as	our	brick
milk	bad	pine	cannot
more	became	point	change
most	best	poor	coal
Mr.	better	print	cream
night	bird	rain	cup
north	block	reader	dead
nut	blue	reading	Dec.
off	bright	real	eat
once	cap	road	Feb.
outside	case	same	felt
page	cat	sell	filling
papa	cent	short	finding
pay	chair	side	Friday
pig	children	sister	frost
put	coat	spell	girl
red	cold	spelling	glass
rent	cook	standing	grass
river	cover	stone	ground
rush	covering	summer	grove
sand	dad	Sunday	handy
seen	delay	table	him
send	doing	thanking	hog
sheep	dust	there	hour
should	early	till	house
sick	ever	toy	hunting
six	face	tree	Jan.
some	farming	used	kid
stand	faster	want	landing
stay	fellow	war	law
such	fill	washing	lived
sun	for	water	low
sweet	found	went	mad
take	fun	west	March
tent	glad	wheat	meat
they	goldfish	when	morning
thinking	grand	wide	mud
	green	window	myself

name	cross	slow	list
near	darling	son	liver
net	deep	song	lives
never	died	soon	load
nice	don't	sport	loved
of	drive	stamp	luck
oldest	even	stated	mark
paper	eye	stick	master
part	far	stop	mate
pen	fight	swell	money
picture	first	teaching	mouth
playing	fishing	teeth	new
price	fit	ticket	noon
ready	forget	trip	nothing
rest	glove	upon	oats
rice	gone	wake	oh
ride	great	warm	painted
rock	keep	wife	pass
Sat.	kiss	willing	post
sent	lady	worked	postage
shoe	larger	yellow	press
singing	leader	yes	quick
sink	leave		rule
sleep	leg	STEP 6—92%	sack
sound	life	93%	saved
start	longest		seed
storm	looked	act	seeing
stove	ma	alone	sending
teacher	meal	any	set
telling	mine	anyone	seventy
thin	no	aside	silver
took	now	bake	sir
unable	Oct.	become	sit
were	older	belt	small
wind	open	board	soft
wise	or	body	soil
without	overcoat	boxes	spending
worker	party	camp	spent
	pick	can't	stage
94%	pie	child	started
able	pin	colder	staying
above	proper	cool	still
ahead	rail	crop	stood
air	reach	done	sugar
also	remove	eight	supper
arm	report	father	teach
around	room	flat	test
ask	rose	fort	town
banker	round	four	walked
bat	rust	goat	week
bear	sad	hair	whenever
because	safe	handed	while
behind	sat	handle	yearly
belong	shall	hear	zone
contest	sin	himself	92%
cost	slip	inches	another
country		lesson	April

army	sold	paint	flower
ate	spot	pump	garden
basket	talking	queen	gift
birthday	these	rubber	glasses
cattle	told	snowed	growing
check	trust	soap	hang
cleaning	twenty	something	harder
clock	western	sorry	harvest
close		speak	here
December	91%	sum	hit
die	alive	sunshine	holding
drop	aunt	taking	income
easily	band	talk	itself
egg	beat	tenth	kindness
fence	been	than	kitten
fine	being	tip	know
forgot	branch	tire	lace
form	bringing	ton	listed
fur	buy	true	lump
grant	cane	trunk	marking
heating	charge	try	nation
helping	chart	Tuesday	nearly
job	church	unless	neck
jump	clay	wanted	none
kill	coffee	wanting	noted
kinder	danger	washed	November
lumber	deal	welcome	office
next	deed	wheel	ours
only	depend	win	outfit
other	dream	wire	person
pack	enough	wishing	pure
packing	feed	wonder	range
paying	fifty	write	rank
people	friend		rate
picking	given		recover
pillow	ha	STEP 7—88%	remain
pink	hardly	90%	remark
planted	heavy		rented
plate	high	Aug.	retain
please	hole	blood	return
plow	homesick	both	shame
pocket	horse	brought	shape
pound	January	brush	sort
pride	keeping	bunch	space
printed	lame	burn	station
railroad	largest	called	steam
recall	lunch	catch	study
renter	mailed	chum	tank
seat	matter	classes	thereafter
self	meet	club	those
September	mostly	content	thus
shipment	moved	county	trained
shop	music	dearest	use
sickness	nobody	dresser	wagon
smart	order	farmer	wet
snowing	oven	fear	wild
	own	file	

wool  
word  
worth  
yesterday

89%

acting  
booklet  
born  
bottle  
bought  
brain  
brand  
cared  
carry  
center  
chop  
closed  
coast  
cooking  
dated  
discount  
display  
dollar  
dozen  
drug  
drum  
duty

everything

express

fact

fail

few

filled

gather

getting

happen

hate

hurry

invite

leaves

less

maid

mailing

maker

many

might

news

painter

partly

patch

peach

phone

plenty

pole

post card

printing

protest

pull

race

rained

render

roof

row

settle

shortly

shut

sixty

size

speaker

stranger

street

strongest

suit

sure

temple

thick

travel

trying

understand

watch

weak

woven

young

88%

agree

bet

blame

cheer

Christmas

closer

cord

counting

enter

evening

everyone

fair

finish

follow

football

force

forest

former

front

funny

garment

grain

gray

grown

holder

hoped

I'm

indeed

lift

lovely

membership

met

newspaper

nose

October

passing

per

plan

raw

right

ring

sale

saving

selling

Sept.

skate

snap

spoke

starting

step

stunt

team

thankful

thought

tie

township

track

turkey

uncle

understanding

united

vote

wrote

87%

across

again

agent

always

apart

asleep

awhile

Bible

boss

bother

build

calf

charming

chicken

cloth

coin

crib

dandy

family

feeling

finger

ford

forgive

frame

goose

grandma

grew

hearing

herself

inasmuch

learned

learning

leaving

Miss

miss

month

noise

orange

otherwise

pleased

posted

prevent

printer

quart

raised

removed

respect

roll

seventh

share

shot

sight

someone

somewhere

stock

tend

tile

title

trace

treat

trusting

STEP 8—84%

86%

almost

amount

answer

anything

begin

behalf

bid

bite

cleaner

coasting

cotton

death

deliver  
demand  
doctor  
draft  
eve  
exchange  
failed  
figure  
finished  
gown  
grandfather  
hardware  
held  
history  
improve  
knew  
learn  
making  
match  
moving  
named  
need  
pain  
peace  
pending  
poorly  
power  
rack  
raining  
reaching  
renew  
renting  
rug  
sample  
scout  
sock  
tested  
thereof  
thread  
too  
twice  
value  
velvet  
wear  
won

85%

absent  
anywhere  
belonging  
building  
carpet  
cast  
cause  
caused  
chance  
contain  
cottage

court  
damp  
dare  
dearly  
depending  
dressed  
drew  
drill  
edge  
greatest  
grind  
heap  
honest  
household  
inform  
invited  
island  
killed  
kisses  
labor  
leather  
locate  
lower  
nature  
overlooked  
pa  
painting  
pair  
plum  
porch  
present  
reported  
riding  
rolling  
Saturday  
seem  
sometime  
third  
thousand  
Thursday  
treated  
turn  
waited  
whole  
wishes  
withdraw

84%

afraid  
August  
auto  
battle  
bench  
between  
branches  
brown  
bushel  
chill

clothing  
cloudy  
company  
dispose  
does  
enjoy  
fancy  
feeding  
folder  
forth  
frankly  
fresh  
glee  
having  
heard  
higher  
hundred  
I'll  
improved  
inclosed  
iron  
joke  
least  
loaded  
lone  
lonesome  
loud  
lung  
meantime  
member  
merry  
mighty  
monthly  
nap  
nicely  
produce  
proud  
provide  
raise  
record  
repair  
request  
rod  
shade  
sheet  
showed  
simple  
since  
smaller  
somewhat  
stair  
strongly  
taxes  
their  
tried  
weather  
wished

83%

active  
address  
ans.  
badly  
beet  
beg  
bit  
broken  
bugs  
builder  
candle  
changed  
clever  
colt  
conduct  
copy  
drilling  
eighteen  
excuse  
extent  
field  
formed  
gladly  
hereafter  
hotel  
inclose  
lighting  
located  
lucky  
maple  
meeting  
middle  
northern  
offering  
packed  
payment  
pearl  
plain  
prize  
ranch  
respond  
returned  
rough  
scale  
second  
single  
sixth  
slipper  
sooner  
thirty  
to  
treatment  
vacation  
visit  
witch  
won't

writing	twelve	setting	charged
youth	understood	spread	climate
zero	voter	square	comfort
82%	waiting	steel	comply
action	weary	subject	cousin
afterward	wedding	talked	dealer
already	whereby	tread	dealing
among	women	valley	deeply
boiler	wonderful	voice	deserve
broad	yoke	waist	dose
broke		which	expert
cleaned		worm	extend
cure	STEP 9—79%	80%	feeder
decline	81%	affloat	fifth
delighted	advance	anyway	foolish
eighty	anyhow	artist	frozen
elect	blew	breakfast	germ
everybody	button	bridge	guess
flesh	buyer	cheap	homestead
floor	caught	corner	informed
froze	central	cutting	judge
fruit	chain	delivered	listen
gaining	clearly	directed	main
globe	damage	English	moment
granted	daughter	fixed	obtained
herewith	degree	greater	penny
instead	enclosed	greatly	postal
joyful	find	health	power
kindest	finest	hers	product
lamb	flour	hurt	public
leaf	folk	junk	reached
liberty	fuel	likewise	reason
lie	gallon	mass	recovered
living	greeting	mend	remind
mountain	haven't	needed	season
Mrs.	helped	needle	serve
neat	hence	nevertheless	speed
obtain	later	notice	stamped
ocean	laugh	o'clock	student
officer	mind	ordering	suitable
pencil	mister	pools	throw
pretty	nearer	post office	trouble
program	nor	potatoes	turned
prove	opening	raising	union
proved	outlined	repeat	upper
provided	payable	sew	valued
question	phoned	shed	visited
requested	played	strike	wait
rip	prevented	studies	whom
rushed	production	though	wrong
scare	quickly	trade	78%
several	reduce	79%	answering
stuff	refuse	amounting	beef
throat	retail	before	chapter
through	seal	bottom	crazy
tiny	seemed	carried	daily

dancing  
dread  
election  
factory  
farther  
fix  
fourth  
fully  
gas  
German  
grit  
handling  
idea  
inspect  
isn't  
jar  
kitchen  
knowing  
language  
latest  
latter  
liked  
message  
package  
perhaps  
reply  
returning  
sash  
score  
skating  
slide  
steady  
that's  
tired  
visiting  
we'll  
worse

77%

acted  
blessed  
busy  
cheerful  
coming  
contract  
couple  
direct  
eleventh  
enclose  
excited  
explain  
extra  
fashion  
favor  
gain  
habit  
handsome

herein  
insist  
intend  
joined  
lbs.  
now  
nerve  
nurse  
odd  
opened  
ought  
past  
placed  
pleasure  
proven  
rabbit  
require  
tax  
weekly  
weigh  
weight  
woman  
Xmas.

STEP 10—73%

76%

abstract  
answered  
bigger  
built  
bulk  
capital  
cheaper  
checked  
clerk  
cough  
dairy  
detail  
dodge  
eager  
else  
figured  
freeze  
furnish  
grip  
headache  
housekeeping  
intended  
join  
kept  
lecture  
loving  
machine  
married  
mistake

movement  
perfect  
permit  
plainly  
primary  
reaches  
scrap  
sis  
training  
truly  
until  
watching

75%

although  
animal  
appear  
ashamed  
Ave.  
beaten  
begun  
birth  
changing  
checking  
coach  
creep  
ease  
factor  
forty  
fourteen  
friendly  
gained  
gland  
helpful  
its  
level  
linen  
manage  
notion  
object  
ordered  
organ  
owing  
parlor  
providing  
ribbon  
slept  
sorrow  
stating  
term  
together  
touch  
useful  
view  
worst  
writer

74%

acre  
actor  
anybody  
attend  
backed  
barrel  
beauty  
beyond  
buying  
captain  
color  
coy  
enclosing  
except  
explained  
further  
gee  
handled  
highest  
improving  
inviting  
ivory  
known  
length  
local  
measure  
million  
misses  
needing  
owner  
picnic  
profit  
rapid  
recite  
relation  
relationship  
section  
secure  
silence  
skirt  
soldier  
sore  
statement  
taught  
throughout  
to-morrow  
towel  
unpaid

73%

agreed  
await  
chairman  
closing  
collar  
cooler

covered	holiday	rainy	couldn't
deportment	hospital	remember	delivery
disposed	inclosing	says	director
dreadful	include	serving	district
during	intention	sleet	doubt
enjoyed	invoice	suffering	Dr.
expected	ladies	Tues.	example
famous	namely	winner	expressed
French	owe	workmanship	fitted
furnished	parties	70%	fortune
gasoline	per cent	admit	forwarding
hare	promised	advice	geography
healthy	putting	awaiting	grocery
including	quit	blooming	headquarter
investment	recess	bluff	important
letting	reduction	booth	improvement
lodge	regard	buggy	insert
lonely	reserve	butcher	I've
oblige	sewing	delightful	lowest
perfectly	shipping	desire	manner
piano	shoulder	earnest	minute
property	stayed	explaining	normal
prospect	supply	fullest	obliged
quarter	uniform	furnace	quite
regulation	wage	graze	recently
saddle	71%	happened	refreshment
saver	addresses	loss	refused
settlement	advise	model	sign
shock	alley	neglect	sitting
submit	barley	nineteen	surface
Thanksgiving	began	parent	topic
traveling	break	placing	waste
voting	carrier	presented	watched
72%	cities	problem	worry
apply	containing	progress	yourselves
baking	continue	quoted	68%
base	delayed	reduced	adjust
bog	desired	rye	advising
careful	dice	scarce	ample
cigar	dirty	seller	aware
correct	fitting	served	believe
crowd	foundation	server	chose
curtain	furnishing	spare	common
devoted	gentleman	sweater	condition
discovered	handkerchief	Wednesday	consist
dwelling	hoping	we've	contained
earning	human	wouldn't	credit
elected	husband	you'll	employed
enjoying	illness	STEP 11—66%	fairly
entering	increasing	69%	forenoon
feel	knot	according	forgotten
fever	likely	aid	friendship
fifteen	limb	balance	fund
film	loyal	calm	hurried
flavor	owned	cement	I'd
forward	pavement		inquire
	pupil		



jury  
location  
performed  
prepaid  
properly  
requesting  
result  
settled  
shown  
stories  
struck  
success  
wasn't

67%

adjustment  
boarding  
circus  
companion  
dangerous  
fault  
fern  
figuring  
forwarded  
included  
information  
ironing  
method  
promise  
recent  
regret  
remained  
simply  
standard  
wondering

66%

account  
addressed  
attending  
breaking  
burden  
colored  
debate  
dependent  
expecting  
February  
ideal  
industry  
maybe  
modern  
neighbor  
noticed  
passed  
pertaining  
private  
protected  
queer

rapidly  
remembering  
renewed  
seldom  
suppose  
utmost  
written

65%

ache  
aim  
attention  
closely  
convention  
current  
debating  
due  
education  
entirely  
entry  
fare  
hadn't  
instruction  
item  
loan  
neglected  
pattern  
preparing  
prompt  
promptly  
running  
search  
select  
text  
tickled  
tight  
wearing  
weighed

64%

allow  
arrive  
avenue  
average  
bowl  
cherries  
chief  
collect  
crippled  
domestic  
entitle  
fee  
hereby  
interested  
minister  
offered  
ourselves  
prepare

produced  
required  
shipper  
smooth  
surprise  
taste  
therefore  
toward  
tract  
using  
worthy

63%

addition  
against  
ankle  
complaint  
constant  
depot  
didn't  
direction  
directly  
entered  
entertainment  
exciting  
following  
general  
gentlemen  
gotten  
group  
hasn't  
hello  
honor  
interest  
period  
prayer  
replying  
separate  
struggle  
tanning  
violin

STEP 12—58%

62%

ability  
advanced  
avoid  
blackberries  
carefully  
creamery  
daddy  
describe  
duties  
entertain  
entire  
favorable

followed  
guide  
independent  
lately  
lining  
management  
moral  
oversight  
parcel  
piece  
proceed  
proof  
regular  
remit  
rifle  
strict  
surprised  
total  
trial  
you'd

61%

advised  
automobile  
biggest  
calves  
choice  
concluded  
conversation  
cute  
decide  
deposit  
deserved  
difference  
final  
musical  
ninth  
preacher  
promotion  
quality  
quiet  
regarding  
whose

60%

advantage  
adventure  
argument  
Bro.  
comfortable  
complete  
confined  
consider  
continued  
debt  
extended  
factories  
future

ghost  
gravy  
inspector  
instant  
interesting  
limit  
lose  
madam  
mamma  
national  
published  
reputation  
shopping  
sire  
slightly  
studied  
vision

59%

alfalfa  
channel  
connected  
contemplated  
decided  
destroyed  
different  
excess  
feature  
firm  
funeral  
laid  
liberal  
maintain  
mention  
natural  
notify  
operation  
pardon  
position  
presume  
procured  
remembered  
republican  
ruin  
satisfied  
service  
style  
supplied  
usual  
whether

53%

appeal  
appeared  
aren't  
braid  
cabinet

capable  
clothe  
connecting  
contrary  
control  
correctly  
doubtless  
either  
enrolled  
entertaining  
favored  
forced  
garage  
growth  
honestly  
loose  
lovingly  
machinery  
manufacture  
mentioned  
misunderstanding  
patent  
pleasant  
prepared  
priced  
register  
represent  
telephone  
theatre  
volume

57%

adjusted  
author  
billed  
cellar  
confer  
division  
drama  
federal  
filing  
installed  
manager  
nephew  
pastor  
president  
prevail  
publication  
secured  
signed  
transfer  
transportation

56%

appointed  
arrange

assure  
cedar  
choose  
considering  
convince  
courage  
crew  
enroll  
exact  
expired  
freight  
furniture  
graduating  
guest  
impossible  
instructed  
junior  
manufacturing  
operated  
popular  
purchase  
refer  
selection  
slight  
studying  
supplies  
vacant  
worried

55%

accept  
advancement  
advertise  
agreeable  
attended  
bass  
collecting  
commence  
concert  
constantly  
effort  
failure  
female  
inclined  
instruct  
liable  
limited  
missed  
publisher  
rendered  
series  
shipped  
special  
transit  
treasurer  
valuable

STEP 13—50%

54%

affair  
awful  
considered  
corrected  
correction  
credited  
doesn't  
effect  
generous  
hesitate  
internal  
library  
liquid  
losing  
neighborhood  
neither  
particular  
possible  
purpose  
receive  
refund  
reliable  
represented  
requirement  
resident  
resulting  
route  
salesman  
selected

53%

advertised  
article  
assist  
automatic  
carrying  
concerning  
consideration  
course  
humor  
increase  
jobber  
largely  
nickel  
patient  
Prof.  
quotation  
reference  
serious  
stomach  
straight  
support  
supposed  
worrying

52%

actual  
cashier  
catalogue  
certain  
crowded  
discourage  
disgusted  
earliest  
exactly  
exam.  
federation  
formerly  
graduation  
increased  
introduction  
medicine  
operating  
opinion  
personal  
practice  
reasonable  
regardless  
slippery  
telegram

51%

absence  
adopted  
bracelet  
calendar  
college  
confidence  
connect  
copies  
desiring  
discontinued  
durable  
employer  
encourage  
expression  
imagine  
realize  
safety  
spirit  
strawberries  
subscriber  
weren't

50%

arrived  
bargain  
commerce  
construction  
deliveries  
easily  
extensive  
graduate

hauled  
justified  
manual  
niece  
really  
satisfaction  
situation  
stationary

49%

arrival  
benefit  
certainly  
coarse  
confident  
convinced  
enrollment  
exception  
favorite  
instance  
involved  
literary  
occupied  
opera  
organized  
positive  
remedy  
satisfactory  
splendid  
succeed  
system  
vary

48%

applied  
attempt  
believing  
circular  
composition  
connection  
considerable  
democrat  
democratic  
good-bye  
haste  
importance  
numerous  
patron  
raiser  
respectfully  
responsible  
strength  
wholesale

47%

accomplish  
announce  
attached  
attain

beginning  
booster  
fierce  
hustling  
investigation  
Latin  
moderate  
personality  
prefer  
rural  
strictly  
tattooing

46%

advertising  
all right  
attach  
banquet  
compelled  
cushion  
data  
decrease  
difficulty  
envelope  
establish  
expensive  
fashionable  
happiness  
nervous  
ninety  
process  
relative  
sanitary  
society  
source  
succeeded  
talent  
terrible  
type

STEP 14—42%

45%

absolute  
altogether  
amendment  
approved  
assured  
cartoon  
choosing  
Christian  
concern  
conclusion  
develop  
equally  
exercise  
inducement

label  
notified  
quote  
securing  
themselves

44%

arriving  
attraction  
circulation  
conference  
customer  
elsewhere  
fortunate  
frequently  
honorable  
meant  
mere  
obligation  
policy  
purchased  
reception  
reservation  
suggest

43%

accident  
brief  
celebrate  
citizen  
combination  
established  
glorious  
grammar  
influence  
issue  
planned  
practical  
profitable  
realizing  
relieved  
timothy  
universal

42%

auntie  
available  
canned  
collection  
congratulate  
destination  
difficult  
electrical  
ere  
examine  
government  
gratitude  
heretofore

introduced	disease	supervision	resource
invitation	estimated	welfare	supervisor
justify	examined	35%	31%
knowledge	impression	appreciate	absolutely
mental	received	assurance	accordingly
previous	representation	ballot	assistance
qualities	social	basis	auditor
receiving	submitted	distribution	commercial
regularly	superintendent	engineering	council
resigned	38%	heir	existing
salary	barely	prosperous	foreign
stopped	considerably	quantity	magazine
university	design	34%	politics
41%	equipment	assistant	various
allowed	expense	fabric	vicinity
companies	experience	illustration	STEP 16—27%
explanation	instrument	installment	30%
grateful	material	merit	administration
indicate	registered	rec'd	advisable
instructor	renewal	reliability	allotment
insurance	Sabbath	variety	announcement
international	semester	33%	circumstances
profession	signature	activity	crocheting
sincere	subscription	based	demonstration
40%	superior	canvass	exceptional
anxious	urge	conservatory	executed
assortment	STEP 15—34%	co-operative	illustrated
awfully	37%	crochet	inquiry
blizzard	application	demonstrated	journal
business	authorized	electricity	organization
candidate	coupon	excitement	principal
congratulation	description	hastily	principle
contemplating	development	literature	remembrance
etc.	disagreeable	meter	similar
generally	disposal	notary	29%
identify	engineer	presence	acquire
investigate	entitled	prior	actually
legal	error	registration	assuring
possibly	majority	secretary	athletics
readily	merchandise	sympathy	enormous
relieve	proposition	32%	fundamental
satisfy	successful	attendance	girlie
sense	36%	client	institute
suggested	advertisement	compliment	naturally
surplus	agency	consequently	possess
territory	arranged	consultation	response
39%	confirm	duplicate	straightened
agriculture	disappoint	employee	thesis
ambition	evidence	examination	unusual
appointment	favorably	inst.	28%
assembly	genuine	issued	acquainted
attractive	merely	ordinary	arrangement
choir	organize	planning	assignment
confirming		practicing	completely
co-operating		preliminary	convenient
corporation			

co-operation  
examiner  
excellent  
extreme  
finally  
gradually  
orchestra  
particularly  
permanent  
preparation  
quantities  
senior  
substitute  
X-ray

27%

additional  
administrator  
admission  
applicant  
civics  
commission  
consequence  
evidently  
inquires  
institution  
premium  
receipt  
satisfactorily  
usually

26%

algebra  
appearance  
assume  
correspond  
immense  
judgment  
official  
physician  
probably  
thorough

25%

attitude  
carnival  
constitution  
continuous  
customary  
disappointed  
equipped  
individual  
occasionally  
original  
possibility

24%

alumni  
approval  
bulletin

confirmation  
cordially  
decision  
disappointment  
epidemic  
exhibit  
familiar  
geometry  
illustrating  
interfere  
sincerely

STEP 17—21%

23%

acquaintance  
annual  
annually  
association  
essential  
exclusively  
exhausted  
grippe  
maturity  
necessary  
opportunity  
remittance  
representative  
unusually

22%

assigned  
certificate  
character  
communication  
enthusiastic  
librarian  
personally  
privilege  
regretting  
science  
surgery

21%

assessment  
especially  
extremely  
inferior  
mechanical  
prosperity  
responsibility

20%

acceptance  
accordance  
agricultural  
associated  
attorney  
circuit

mortgage  
occasion  
physical  
solicit  
  
19%  
accompanying  
bonus  
campaign  
cordial  
correspondent  
executive  
license  
professional  
specification

STEP 18—16%

18%

appreciating  
bureau  
convenience  
exceptionally  
extension  
Hallowe'en  
legislation  
necessity  
pneumonia

17%

accomplished  
affidavit  
appreciation  
commissioner  
community  
inconvenience  
originally  
practically  
recommend  
referred  
scientific  
unnecessary

16%

candidacy  
capacity  
efficient  
exhibition  
financial  
guaranteed  
immediately  
leisure  
sufficient

15%

acknowledge  
anticipate  
correspondence  
fraternally  
referring

14%  
analysis  
appreciated  
enthusiasm  
immediate  
possession  
tuberculosis

STEP 19—12%

13%

accredited  
apparatus  
authority  
thoroughly

12%

accommodate  
associate  
courteous  
peculiarities  
phosphorus  
  
11%  
affectionately  
ambitious  
politician  
specially

10%

anniversary  
conveniently  
recommendation

STEP 20—8%

9%

definite  
ingredients  
materially  
  
8%  
chautauqua  
committee  
definitely  
zephyr

7%

anticipating  
guarantee  
rheumatism  
soliciting

STEP 21—6%

6%

efficiency  
lieutenant  
  
5%  
appendicitis  
schedule

STEP 22—4%

4%

characteristic



**SECTION XIII**

**THE IOWA SPELLING SCALE**

**GRADE VI**

## GRADE VI

STEP 1—100%		STEP 2—99%	
age	long	able	got
and	may	about	grass
as	me	add	green
away	more	all	hard
best	most	along	have
big	must	am	head
bill	my	an	help
book	name	apple	hold
boy	old	are	holding
but	on	at	ice
call	one	back	in
can	out	bad	inside
care	over	ball	into
clear	place	bank	July
cover	put	be	land
dear	read	bell	last
did	reader	better	lay
dog	real	bird	letter
door	rest	black	light
dress	run	blank	like
each	said	blow	little
end	same	box	lot
ever	say	butter	love
fast	see	check	made
father	she	child	make
feet	should	city	man
found	stand	clean	May
from	tell	coat	milk
get	thank	cold	Monday
give	that	come	move
go	the	cook	much
gold	them	corn	myself
good	they	could	never
grand	thing	day	not
happy	this	deal	nut
has	train	dinner	oil
he	tree	do	other
helping	under	doing	park
his	walk	down	pay
hog	walked	eat	peach
home	was	even	play
how	way	face	rain
if	we	farm	rich
is	went	farming	ride
it	what	faster	ring
just	when	fat	rock
lake	will	fire	rust
large	wish	fish	saying
larger	with	five	school
let	working	food	sell
live	year	girl	send
			seven
			ship



show  
singing  
small  
snow  
so  
soil  
some  
spell  
sport  
state  
stay  
stone  
table  
take  
taken  
ten  
test  
thanking  
think  
three  
till  
time  
top  
understanding  
up  
us  
very  
wagon  
washing  
well  
west  
wheat  
while  
who  
why  
wide  
window  
without  
wood  
work  
worked  
would  
yet  
you  
your

STEP 3—98%

after  
ago  
air  
arm  
around  
art  
ask  
bake  
barn

battle  
because  
bee  
brand  
bring  
brother  
bunch  
by  
cake  
came  
cannot  
car  
card  
case  
changed  
class  
clock  
close  
contest  
country  
covering  
cow  
cross  
cut  
dark  
date  
Dec.  
December  
delay  
early  
eight  
every  
eye  
fail  
fall  
fill  
foot  
for  
four  
free  
Friday  
game  
gave  
going  
grade  
had  
hand  
hat  
hay  
heat  
her  
hill  
him  
homesick  
hot  
hour  
house

however  
hunt  
ill  
ink  
Jan.  
June  
keep  
kind  
labor  
lady  
late  
law  
life  
lived  
longer  
look  
looking  
lost  
loved  
mark  
market  
master  
meal  
mill  
mine  
money  
mother  
nation  
near  
next  
night  
nine  
noon  
note  
Nov.  
of  
off  
once  
outside  
page  
paper  
part  
pick  
please  
point  
poor  
post  
print  
reach  
red  
remove  
rent  
report  
river  
room  
rush  
sample

sand  
saw  
seed  
seeing  
shall  
sheep  
sick  
sickness  
silk  
slow  
soon  
south  
spelling  
spend  
spot  
spring  
standing  
start  
stop  
store  
stove  
such  
summer  
sweet  
swell  
talking  
thinking  
to-day  
ton  
trip  
Tuesday  
two  
unless  
used  
wall  
want  
wanting  
week  
white  
wife  
wild  
wishing  
within  
worker  
yard  
yellow  
yes  
yourself  
zone

STEP 4—96%

97%

above  
adding  
again  
agree

alone	fur	renter	bottle
any	glad	rice	bought
asked	glass	Sat.	boxes
baby	gone	sat	braid
backing	growing	sent	burn
band	half	set	buy
banker	handy	shoe	called
banking	harder	sink	cap
basket	harvest	sister	cash
bat	held	six	cattle
bed	here	size	charge
being	high	sleep	charming
below	holder	snowed	children
beside	horse	soap	clay
birthday	hundred	sound	coast
blue	hunting	space	cool
body	joy	stick	cost
bother	killed	sum	cotton
branch	kindly	sun	dandy
bringing	kindness	talk	depend
building	landing	tank	dressed
bushel	leader	teaching	drive
calling	left	then	dust
cat	looked	thin	earning
cent	low	to-night	enter
chair	luck	took	farmer
change	ma	town	few
Christmas	mad	treat	figure
clothing	mail	try	first
coal	maker	unable	flower
coin	meat	walking	forget
count	morning	wash	fort
counting	Mr.	water	friend
crop	net	whatever	fruit
dance	north	where	garment
danger	number	wind	gate
deep	office	winter	gather
display	only	wire	gift
dollar	our	write	given
done	oven	yearly	glasses
drop	overcoat		grain
earth	pack	added	great
east	party	ahead	ground
edge	people	alive	hang
far	per	also	hate
feed	picture	another	himself
fell	pig	anyone	hit
fellow	pin	asking	inch
felt	pine	become	inches
fifty	plate	behind	income
fight	playing	belonging	jump
finding	pound	belt	kid
fishing	price	block	kinder
forgot	proper	blood	king
form	rail	board	learn
fun	reading	boat	leave
	ready	boss	leg

96%

lesson	slip	degree	rented
lift	smart	delighted	renting
listed	soft	died	rolling
longest	sold	draft	rose
lunch	song	dream	rule
mailed	spent	drew	seat
March	spoke	eighty	seem
marking	stamp	enough	seen
mouth	started	evening	self
mud	stated	Feb.	selling
music	station	fence	Sept.
newspaper	study	filling	shame
nice	sunshine	follow	shipment
no	Sunday	forgive	side
nothing	supper	former	sin
ocean	teacher	frost	snowing
Oct.	telling	glove	son
October	tent	goat	sort
older	than	goose	spending
oldest	third	grove	step
or	track	handle	stood
order	trained	hear	stump
outfit	trunk	heating	sugar
paint	war	hereafter	taking
papa	were	inspect	teach
paying	whenever	job	teeth
payment	willing	kill	tenth
person	wise	kiss	tested
phone	wool	learned	thereafter
pink	word	leather	these
pleased	worth	liver	thick
printed		maple	thousand
provide		mate	ticket
pure	STEP 5—94%	mean	tire
quart	95%	meet	told
raised	act	meeting	trace
rate	bay	mend	true
reached	bet	moved	trust
remain	blame	new	trusting
remark	booklet	now	twice
request	born	obtain	understood
return	brick	oh	value
road	bridge	open	wake
roof	brush	otherwise	watch
row	calf	own	win
sack	camp	painted	world
sad	carpet	passing	young
saved	chicken	pen	94%
sending	cities	pie	advance
settle	club	plain	afternoon
sheet	company	pole	always
shop	cord	press	amount
short	cup	pump	army
shut	dad	quick	aunt
simple	darling	range	auto
sir	dead	rank	beat
sixty	dearly	recover	become

been	offering	awhile	many
between	pain	bear	matter
bright	partly	began	member
brought	pass	bench	might
build	payable	branches	mighty
catch	pending	broken	nature
center	pillow	chain	nerve
chart	post card	chop	nicely
cleaning	power	church	nose
cloth	pride	cleaned	overlooked
coffee	pull	closed	pa
contract	railroad	colder	packing
cooking	rained	content	painting
crib	recall	copy	pair
dare	removed	correct	plenty
dealing	reported	cottage	pocket
depending	round	court	postage
discount	rushed	cream	prevent
doctor	scout	cure	printer
egg	season	damage	protest
English	seventh	daughter	ranch
enjoy	seventy	dearest	reaching
feeding	silver	death	repair
file	skate	deed	respect
finish	something	don't	retain
finished	sometime	dresser	rod
fit	somewhat	drug	rubber
flat	sorry	drum	September
funny	speak	easy	serve
garden	stage	enclose	share
getting	steam	everybody	shortly
gladly	still	exchange	showed
goldfish	street	fact	sit
grant	strongest	farther	slipper
granted	subject	fine	smaller
greater	thankful	folder	somewhere
hall	those	folk	sooner
hardly	thread	fully	speaker
heap	trying	gain	starting
heavy	twenty	gallon	staying
hen	upon	ha	stranger
January	vacation	hair	tend
joyful	vote	handed	there
kitchen	weather	happen	Thursday
kitten	western	hearing	tip
know	wet	herewith	training
lame	whereby	history	twelve
least	wrote	indeed	union
list		island	united
load		jar	valued
locate	STEP 6—92%	leaves	weak
lower	93%	liberty	wedding
lump	agent	likewise	welcome
match	answer	loaded	withdraw
nearly	anything	located	yesterday
noise	asleep	lone	
oats	ate	lovely	

92%			
address	largest	cleaner	requested
already	learning	closer	requesting
appear	less	cloudy	require
April	living	cutting	respond
aside	loyal	delightful	rug
August	merry	demand	sale
author	moment	desire	saving
bean	mostly	elect	scale
before	named	eve	second
belong	nearer	everyone	snap
bite	neck	everything	stock
both	need	extend	taught
broke	nobody	extra	tax
busy	officer	fear	team
cane	ordering	feeling	their
can't	patch	fixed	thought
carry	planted	forest	tile
cast	present	freeze	title
caused	printing	French	to
charged	production	froze	treated
checking	proved	frozen	understood
chum	public	gained	washed
classes	queen	greeting	wear
contain	reason	grown	whole
cooler	renew	having	
county	returned	hence	STEP 7—88%
damp	safe	herself	
dated	shed	hole	90%
does	shot	including	acting
dozen	sixth	ivory	aim
drill	square	joke	almost
duty	strongly	judge	ashamed
expert	studies	knowing	Aug.
express	trade	leaving	beef
family	uncle	listen	bid
fancy	use	lives	builder
filled	visit	location	changing
flesh	waited	mailing	cheap
fresh	waiting	membership	cheaper
friendly	wanted	mind	coasting
front	wheel	Miss	conduct
grandfather	which	news	contained
grandma	wished	none	continue
gray	wonder	normal	corner
higher	wrong	package	daily
honest	zero	plow	deeply
hurt		pools	die
instead	active	postal	direct
invited	among	product	dispose
iron	answered	program	dread
itself	anybody	provided	ease
join	beg	race	enjoyed
joined	behalf	raise	excuse
keeping	Bible	reduce	extent
kisses	broad	remind	factory
lace	chance	render	failed
	chapter	reply	fair

favor	turn	meantime	improve
flavor	turned	mistake	inclosed
floor	velvet	nap	increasing
formed	voter	notice	industry
frame	watching	orange	inform
fuel	weary	painter	informed
gaining	weekly	pavement	intend
grind	wishes	posted	kindest
grit	woven	presented	later
heard	youth	prize	latest
hoped		property	local
I'm	89%	raw	message
inasmuch	absent	reduction	movement
information	action	regret	moving
junk	afraid	relation	noticed
lamb	amounting	riding	organ
lumber	answering	rip	owned
making	anyhow	score	perhaps
met	anyway	seemed	phoned
miss	anywhere	setting	placed
neat	apart	shape	plum
nor	attend	stair	properly
noted	begin	steel	proud
November	bottom	suit	recovered
object	bugs	thirty	reduced
ours	button	thus	repeat
packed	cared	together	result
pearl	central	tried	retail
pencil	cheer	valley	returning
picking	chill	won	ribbon
plan	clearly	won't	rye
played	closing		88%
poorly	comfort	acre	says
porch	deliver	acted	silence
politics	detail	against	suffering
prove	devoted	artist	talked
providing	during	blew	text
rabbit	factor	boiler	throat
reaches	feeder	careful	treatment
reserve	foolish	climate	trouble
right	force	colt	uniform
sash	German	dancing	wait
seal	glee	delivered	warm
secure	helped	dodge	witch
several	hurry	election	worm
sight	idea	enclosed	87%
someone	I'll	except	across
sore	improved	fashion	attending
speed	intended	field	begun
suppose	invite	fifth	bigger
surface	knew	find	birth
temple	ladies	forth	bluff
through	language	greatest	cause
tie	latter	grew	concluded
township	leaf	hardware	cousin
toy	lodge	hotel	discovered
travel	loud	household	duties
	lung		example

expressed	tiny	modern	enjoying
finest	useful	Mrs.	entering
finger	visiting	narrow	firm
fix	writer	odd	fitting
ford		owe	illness
future	STEP 8—84%	pastor	inspector
gas		peace	instruction
gasoline	86%	perfect	ironing
geography	adjust	permit	length
graze	admit	piano	linen
health	advice	pleasure	main
helpful	afterward	prevented	mister
highest	apply	promotion	mountain
holiday	await	quickly	parlor
include	awaiting	quoted	perfectly
inviting	barley	rack	placing
kept	beauty	saver	prepared
known	beet	shade	promised
laugh	built	skirt	prospect
lighting	capital	stating	running
liked	carrier	student	saddle
lonesome	checked	throughout	slide
lucky	coach	too	steady
maid	common	topic	though
married	condition	total	tired
middle	credit	turkey	traveling
month	dairy	visited	voice
monthly	deportment	wage	weight
northern	dice	waist	women
nurse	directed	wasn't	wonderful
offered	eager	whom	84%
opening	eleventh	workmanship	advanced
powder	else	worse	afloat
pretty	fifteen	85%	ans.
private	figured	account	baking
proven	film	adopted	barrel
raising	final	advising	beyond
rapid	flour	aware	breaking
rapidly	following	badly	bulk
record	football	balance	butcher
refuse	general	base	chairman
relationship	germ	bit	chose
reliable	globe	brown	circus
required	gown	carried	clerk
Saturday	guess	coming	clever
scare	handled	comply	collect
settlement	honor	containing	color
since	housekeeping	conversation	dealer
single	ideal	cough	decline
sock	improving	covered	district
soldier	investment	debate	dwelling
spread	lecture	deserve	forwarding
storm	lie	directly	frankly
strike	lonely	dirty	handling
stuff	lowest	disposed	handsome
submit	machine	drilling	healthy
suitable	manage	eighteen	herein

husband	inclosing	question	prompt
inclose	knot	scarce	quantity
included	neighbor	server	reputation
instruct	notion	serving	ruin
letting	outlined	sew	secured
million	owner	sitting	select
model	parties	sorrow	sewing
needing	pertaining	standard	struck
nevertheless	proof	stories	supplied
ordered	pupil	throw	term
penny	quiet	tread	we'll
performed	quite	weighed	writing
personal	recess	worthy	80%
primary	refreshment	yoke	addition
protected	refund	you'll	aid
publisher	resulting		Ave.
regulation	roll	STEP 9—79%	average
renewed	served		booth
simply	shoulder	81%	chief
sis	sign	agreeable	convention
slept	skating	agreed	crazy
spare	success	avenue	desired
stamped	that's	blessed	direction
statement	unpaid	bowl	division
supply	until	break	either
sure	written	captain	enclosing
taxes		caught	excited
thereof	82%	collection	fare
upper	adventure	connect	female
view	boarding	considering	fern
winner	buyer	coy	forwarded
worry	candle	curtain	greatly
	cement	delivery	grip
83%	couple	dose	group
abstract	debating	effort	growth
ache	depot	excess	hospital
advantage	education	expected	inquire
although	explained	expecting	loss
ample	famous	explain	minister
animal	forward	factories	ought
appeal	foundation	fault	picnic
arrange	gotten	feature	prepare
automobile	haven't	furnace	profit
backed	headquarter	future	resident
beaten	homestead	guide	settled
breakfast	insert	headache	shown
cheerful	limb	hurried	sleet
companion	limit	instructed	utmost
delayed	method	I've	vision
elected	minute	mass	woman
feel	moral	misses	yourselves
fourteen	needed	needle	79%
fourth	neglect	o'clock	adjustment
fund	past	oversight	ankle
furnishing	plainly	pattern	attention
habit	presume	post office	bog
important	promise	problem	



burden  
buying  
cellar  
colored  
constant  
correction  
crew  
different  
dreadful  
earnest  
entertainment  
favorable  
favored  
fee  
fitted  
forenoon  
fortune  
friendship  
furnished  
happened  
human  
intention  
invoice  
manner  
mention  
natural  
oblige  
obtained  
opened  
reception  
recite  
refused  
remember  
rendered  
rough  
scrap  
seldom  
tanning  
telephone  
Thanksgiving  
toward  
trial  
volume  
Wednesday

78%

according  
actor  
adjusted  
blackberries  
blooming  
cherries  
cigar  
comfortable  
complete  
confined  
crippled

crowd  
destroyed  
due  
forty  
further  
gland  
humor  
instant  
manufacture  
mentioned  
musical  
namely  
neighborhood  
parent  
patient  
preacher  
promptly  
quit  
rainy  
recently  
regarding  
represent  
section  
shipping  
shock  
special  
waste  
Xmas.

77%

addresses  
allow  
arrive  
assure  
buggy  
carefully  
certainly  
consist  
current  
dangerous  
director  
entered  
extended  
federal  
forced  
handkerchief  
hare  
hers  
I'd  
installed  
isn't  
lbs.  
loan  
loving  
machinery  
obliged  
particular

piece  
progress  
putting  
reasonable  
regard  
regular  
remembering  
replying  
republican  
route  
selection  
service  
situation  
subscriber  
sweater  
tight  
touch  
truly  
weigh  
worst  
wouldn't

STEP 10—73%

76%

applied  
attached  
attempt  
cabinet  
certain  
choose  
consider  
construction  
convince  
creep  
domestic  
employed  
entitle  
failure  
fairly  
fullest  
garage  
gee  
grocery  
interesting  
level  
likely  
measure  
owing  
popular  
prayer  
prepaid  
priced  
produce  
receive  
slippery  
smooth

towel  
voting  
watched  
75%  
accept  
accomplish  
addressed  
appointment  
assist  
attractive  
biggest  
closely  
connecting  
connection  
constantly  
couldn't  
creamery  
doubt  
effect  
enroll  
entertaining  
entire  
exactly  
figuring  
gentleman  
hasn't  
honestly  
hoping  
interested  
international  
its  
moderate  
ourselves  
per cent  
position  
produced  
publication  
represented  
rifle  
studied  
supplies  
surprise  
tickled  
transfer  
wondering

74%

absolute  
automatic  
avoid  
collar  
commerce  
complaint  
courage  
deserved  
drama  
entry  
fever

filing			
importance			
independent			
internal			
jury			
laid			
largely			
loose			
madam			
manager			
neglected			
opera			
parcel			
procured			
quarter			
quote			
refer			
register			
seller			
shopping			
strength			
supervision			
to-morrow			
tract			
Tues.			
usual			
violin			
we've			
whose			
you'd			
	73%		
appointed			
Bro.			
calm			
circulation			
correctly			
dependent			
difference			
easily			
extensive			
ghost			
gravy			
hadn't			
increase			
justified			
nineteen			
organized			
president			
proceed			
queer			
signed			
sire			
slightly			
spirit			
treasurer			
using			
		72%	
		advertise	
		arranged	
		arrived	
		attraction	
		bargain	
		choice	
		circular	
		college	
		commence	
		composition	
		concern	
		conclusion	
		considered	
		cute	
		desiring	
		durable	
		encourage	
		enrolled	
		entertain	
		entirely	
		exception	
		exciting	
		expired	
		followed	
		freight	
		gentlemen	
		hesitate	
		improvement	
		liberal	
		neither	
		preparing	
		Prof.	
		remained	
		rural	
		selected	
		shipper	
		slight	
		social	
		stayed	
		style	
		surprised	
		telegram	
		therefore	
			71%
		ability	
		absence	
		accident	
		actual	
		advise	
		advised	
		aren't	
		argument	
		booster	
		braid	
		channel	
		confident	
		consideration	
		debt	
		decided	
		deposit	
		described	
		exam.	
		favorite	
		hello	
		increased	
		indicate	
		interest	
		introduced	
		issue	
		pardon	
		period	
		remembered	
		remit	
		satisfied	
		splendid	
		strict	
		struggle	
		supposed	
		taste	
		wearing	
			70%
		appeared	
		assured	
		awful	
		carrying	
		considerable	
		contrary	
		control	
		course	
		credited	
		crowded	
		employer	
		explaining	
		explanation	
		expression	
		forgotten	
		funeral	
		instance	
		introduction	
		Latin	
		limited	
		maybe	
		medicine	
		nervous	
		notify	
		occupied	
		passed	
		positive	
		prevail	
		reservation	
		satisfaction	
		separate	
		straight	
		support	
		vacant	
			STEP 11—66%
			69%
			accordingly
			approved
			attain
			bracelet
			calves
			cedar
			collecting
			combination
			connected
			convinced
			copies
			corrected
			doubtless
			earliest
			enrollment
			February
			furniture
			graduating
			grammar
			gratitude
			guest
			lately
			library
			lovingly
			realize
			relieve
			satisfactory
			search
			securing
			serious
			system
			themselves
			weren't
			whether
			68%
			capable
			citizen
			concerning
			daddy
			discontinued
			elsewhere
			graduation
			invitation
			item
			liquid
			numerous
			obligation
			possible
			published
			really

shipped  
superior  
67%  
advancement  
advertised  
attended  
believe  
continued  
didn't  
exact  
examination  
examined  
frequently  
generous  
hustling  
impossible  
influence  
manufacturing  
ninth  
operated  
profitable  
recent  
reference  
satisfy  
66%  
applicant  
available  
celebrate  
companies  
confirm  
contemplated  
Dr.  
federation  
maintain  
national  
opinion  
policy  
quotation  
remedy  
requirement  
resigned  
society  
vary  
wholesale  
65%  
agriculture  
alley  
canned  
concert  
fashionable  
formerly  
heir  
insurance  
involved  
niece  
patent  
pleasant

received  
salesman  
theater  
transportation  
valuable  
64%  
additional  
arrival  
article  
assembly  
clothe  
decide  
decrease  
deliveries  
evidence  
genuine  
happiness  
hereby  
honorable  
inclined  
investigate  
management  
misunderstanding  
patron  
purchased  
purpose  
raiser  
realizing  
signature  
studying  
worried  
63%  
affair  
arriving  
attach  
banquet  
brief  
confer  
design  
destination  
disgusted  
exercise  
graduate  
inquiry  
junior  
purchase  
registered  
respectfully  
source  
strawberries  
submitted  
STEP 12—58%  
62%  
altogether  
billed

cashier  
choosing  
conference  
customer  
discourage  
envelope  
fabric  
knowledge  
lose  
missed  
possibly  
prefer  
profession  
regardless  
salary  
sincere  
suggested  
transit  
61%  
advertising  
alfalfa  
allowed  
announce  
believing  
congratulate  
corporation  
examiner  
expensive  
fierce  
liable  
mamma  
mental  
operation  
process  
receiving  
reliability  
60%  
activity  
application  
cartoon  
develop  
engineer  
establish  
expense  
glorious  
haste  
legal  
nephew  
operating  
safety  
sanitary  
stomach  
tattooing  
terrible  
59%  
Christian  
democrat

doesn't  
evidently  
identify  
jobber  
material  
various  
58%  
anxious  
assistant  
candidate  
compelled  
cushion  
difficult  
equipment  
excellent  
exceptional  
investigation  
majority  
practice  
proposition  
relative  
strictly  
successful  
welfare  
57%  
assortment  
democratic  
electrical  
entitled  
equally  
impression  
inducement  
instructor  
instrument  
lining  
literary  
manual  
mere  
meter  
presence  
previous  
qualities  
representation  
senior  
series  
timothy  
worrying  
56%  
character  
confidence  
development  
etc.  
examine  
foreign  
government  
hailed

imagine	established	48%	co-operative
organize	exclusively	accomplished	coupon
personality	gradually	acknowledge	finally
renewal	notified	attorney	literature
stopped	particularly	consultation	merit
succeed	planning	co-operation	43%
55%	principal	disappoint	administrator
acceptance	readily	distribution	approval
ambition	suggest	electricity	auditor
amendment	supervisor	existing	certificate
hass	university	experience	co-operating
business	52%	illustrated	correspond
catalogue	advertisement	preliminary	familiar
choir	assistance	premium	journal
confirming	blizzard	relieved	legislation
constitution	calendar	Sabbath	merely
difficulty	commercial	strengthened	organization
disease	data	usually	quantity
error	estimated	47%	response
extreme	responsible	congratulation	surgery
generally	sense	consequently	surplus
issued	stationary	enormous	42%
losing	talent	installment	accordance
magazine	universal	librarian	arrangement
orchestra	51%	naturally	circumstances
politics	appearance	ordinary	conservatory
prosperous	crocheting	secretary	correspondent
regularly	ere	superintendent	individual
territory	fortunate	46%	justify
type	inferior	assignment	principle
variety	label	assuring	41%
STEP 13—50%	meant	based	agricultural
54%	nickel	council	assume
assigned	practicing	disagreeable	auntie
authorized	probably	employee	demonstration
beginning	50%	exhibit	extension
benefit	admission	girlie	illustration
crochet	agency	good-bye	immense
customary	appreciate	grateful	inquires
favorably	assurance	hastily	necessary
merchandise	barely	illustrating	remembrance
ninety	carnival	preparation	subscription
occasion	coarse	resource	substitute
original	excitement	semester	unusual
possession	registration	STEP 14—42%	40%
similar	sympathy	45%	commission
succeeded	49%	administration	communication
53%	announcement	appreciation	mechanical
awfully	attendance	athletics	practically
completely	attitude	cordial	prior
considerably	contemplating	planned	receipt
decision	duplicate	practical	remittance
demonstrated	engineering	44%	39%
description	heretofore	appreciated	actually
disposal	institution	civics	continuous
	urge		epidemic

possess  
professional  
science  
specification  
vicinity

38%

advisable  
all right  
authority  
ballot  
basis  
geometry  
interfere  
rec'd  
scientific

STEP 15—34%

37%

absolutely  
annually  
associated  
exhausted  
official  
regretting

36%

acquainted  
consequence  
inst.  
judgment  
permanent  
specially  
thesis

35%

ambitious  
annual  
bureau  
client  
convenient  
cordially  
disappointed  
immediate  
institute  
personally  
physician  
possibility  
quantities  
representative

thorough  
X-ray

34%

compliment  
exceptionally  
executed  
executive  
license  
notary  
sufficient

33%

allotment  
associate  
materially  
occasionally  
opportunity

32%

acquaintance  
algebra  
courteous  
financial  
sincerely

31%

accredited  
acquire  
alumni  
association  
disappointment  
enthusiastic  
extremely  
leisure  
prosperity

STEP 16—27%

30%

circuit  
soliciting  
affectionately  
anticipating  
capacity  
commissioner  
unusually

28%

bonus  
community

immediately  
recommend  
referred  
responsibility  
satisfactorily

27%

bulletin  
canvass  
conveniently  
fraternally  
referring

26%

candidacy  
committee  
equipped  
inconvenience  
maturity  
necessity  
physical  
tuberculosis

25%

campaign  
correspondence  
especially  
fundamental  
privilege  
solicit

24%

anticipate  
assessment  
confirmation  
enthusiasm  
grippe

STEP 17—21%

23%

accompanying  
convenience  
essential  
exhibition  
Hallowe'en  
originally

22%

definite  
mortgage  
politician

21%  
accommodate  
appreciating

20%

affidavit  
analysis  
chautauqua  
unnecessary

19%

recommendation

STEP 18—16%

18%

apparatus  
pneumonia

17%

anniversary  
appendicitis  
guarantee  
lieutenant  
thoroughly

16%

efficient  
zephyr

STEP 19—12%

13%

definitely  
phosphorus

11%

characteristic

10%

ingredients  
rheumatism

STEP 20—8%

9%

efficiency  
guaranteed  
peculiarities  
schedule



**SECTION XIV**

**THE IOWA SPELLING SCALE**

**GRADE VII**

## GRADE VII

STEP 1—100%			
able	fall	long	stick
about	farm	looking	stone
adding	fast	lot	such
afternoon	faster	make	take
again	fell	man	taken
age	fellow	many	teaching
air	fish	master	tell
all	five	me	test
alone	forgive	milk	that
an	from	more	the
are	gate	most	then
arm	get	mother	think
art	girl	must	thinking
asking	give	my	this
at	glove	name	time
be	go	neck	top
because	gold	net	toy
bell	good	Nov.	train
best	got	nut	tree
better	grade	old	unable
bill	grain	on	unless
black	had	one	up
book	half	out	us
box	hand	paper	very
boy	happy	park	wall
brain	have	pay	was
bring	help	people	way
but	helping	pick	we
call	her	pig	well
called	him	place	west
came	his	pleased	what
can	home	point	when
car	hot	postage	while
card	how	put	who
case	ice	reading	why
charge	if	rest	wife
class	inside	row	will
coat	into	rule	window
come	is	run	winter
corn	it	school	with
could	June	see	without
country	just	sell	word
cut	kind	send	work
day	land	she	working
deep	large	silk	year
did	last	sister	yellow
do	late	six	your
dog	left	snow	
early	lesson	some	
eat	let	space	
every	letter	stage	
eye	like	start	
fail	little	started	
	live	state	

### STEP 2—99%

above  
active  
add  
added



after	display	light	railroad
ago	doing	longer	rain
ahead	down	longest	rate
along	dress	look	reach
also	drop	love	read
am	each	loved	real
answer	earth	mad	red
any	east	made	report
ask	edge	mail	ride
away	eight	mailed	ring
baby	eighty	maker	river
back	face	market	rock
backing	farming	may	rush
bad	fat	meal	rust
band	fight	mean	sad
bank	filled	mill	said
banker	finding	Monday	Sat.
bean	fine	money	sat
bed	flat	mostly	saw
been	food	much	say
behind	for	mud	saying
belonging	found	music	seat
below	free	myself	self
big	game	night	shall
bird	getting	nine	sheep
birthday	given	north	ship
blank	glad	not	shoe
blue	going	note	short
bought	gone	notice	should
bright	grant	number	showed
bringing	green	oats	sick
brother	handed	of	sign
bunch	hang	oil	sixty
butter	has	older	slow
by	he	oldest	snowed
calf	head	our	so
cannot	hill	outside	son
cap	holding	oven	song
cash	hour	over	sound
catch	house	overcoat	spell
cent	however	pack	spend
child	ill	page	sport
children	in	paying	spot
clean	ink	payment	spring
clear	Jan.	pen	stamp
close	joy	picking	stand
cold	July	pie	standing
cost	kindly	plate	stay
cream	kiss	play	still
cross	lace	playing	store
cup	lady	please	subject
dandy	lake	poor	summer
danger	landing	press	Sunday
dear	larger	print	sweet
December	law	proper	swell
dinner	leader	quick	table
discount	leave	rail	thank

thanking	April	delighted	income
them	as	died	inspect
they	Aug.	dispose	invited
thing	aunt	door	January
three	bake	drill	jump
till	ball	drug	keep
tire	bat	drum	keeping
told	battle	dust	kid
took	become	easy	kill
town	bee	end	kinder
trip	behalf	evening	kindness
trust	belt	ever	king
trusting	beside	example	labor
try	blood	exchange	ladies
twice	boat	express	lay
two	body	far	learned
under	booklet	fear	leather
use	boss	feed	life
vacation	bother	feet	lived
value	bottle	felt	liver
walk	boxes	fill	lives
want	branch	filling	living
washing	brush	finish	loaded
week	building	first	lost
went	burn	fishing	luck
were	cake	Friday	mark
whatever	calling	friend	marking
wheat	camp	fully	May
whenever	care	gift	meat
where	carpet	glass	meet
white	chair	glasses	mine
wide	chance	goat	Miss
willing	change	goose	mouth
win	check	grand	Mr.
wind	city	grandfather	nation
wise	classes	granted	near
wish	closed	great	nearly
wishing	cloth	hair	never
wood	club	harder	new
world	coal	hardly	news
would	coffee	hat	nobody
wrote	coin	hay	noon
yard	conduct	hearing	off
yes	contest	heat	once
yet	continue	heating	only
you	cook	heavy	or
zone	counting	here	other
	covering	herself	packing
	cow	high	paint
	cutting	hit	painted
	dance	hog	part
	dark	holder	party
	darling	hundred	pass
	date	hunt	peach
	deal	hunting	pine
	Dec.	inch	placed
	delay	inches	planted

## STEP 3—98%

act  
agent  
almost  
amount  
and  
another  
apple

act  
agent  
almost  
amount  
and  
another  
apple

pole	spelling	army	father
post	stood	auto	Feb.
pretty	stop	awhile	feel
printed	storm	banking	few
printing	stunt	barn	fifty
provide	sugar	basket	finished
race	sum	bay	fit
raised	sunshine	bear	flower
range	talk	before	folder
rank	talking	begin	foot
ready	tank	being	forget
reduction	telling	belong	four
remain	ten	bench	frost
remove	tested	bet	gain
removal	thin	between	garden
rent	thousand	block	garment
renting	ticket	born	gather
request	to-day	brick	gave
respect	ton	bushel	glee
rich	travel	button	grass
rolling	treat	buy	ground
room	true	cared	growing
round	trunk	cattle	hall
safe	Tuesday	caused	handy
same	twenty	chain	hard
sample	united	chum	hate
sand	used	church	hear
saved	valued	clay	held
seed	visit	clearly	higher
seeing	voter	clock	himself
sending	walked	cloudy	hold
sent	walking	coast	homesick
set	wanting	colder	horse
seven	war	company	I'm
seventh	wash	contain	iron
seventy	washed	cotton	island
shade	watch	count	job
shipment	western	cover	judge
show	which	crop	kitten
shut	wild	dad	know
silver	wool	daughter	largest
sin	worked	dearest	learn
singing	write	deed	leg
single	yearly	demand	less
sink	yesterday	depend	lift
sit	yourself	direct	list
size		dodge	listed
slip		dollar	load
small		don't	local
snowing		dozen	locate
soap		dream	location
soft		drilling	looked
sold		drive	low
soon		egg	lower
sooner		election	lunch
sort		family	machine
south		farmer	maid

STEP 4—96%

97%

abstract  
advance  
aim  
alive  
always  
anyone  
anywhere

mailing	September	wire	funny
March	serve	within	gladly
matter	settle	worker	greater
membership	several		grove
morning	share	96%	grown
move	sheet	anybody	handle
moved	sickness	anything	happen
nature	side	around	hardware
nice	sleep	asleep	heard
no	smart	backed	hen
noted	soil	became	hence
nothing	someone	branches	highest
November	something	brand	history
now	sometime	brought	honest
object	spending	busy	hurt
Oct.	spent	carry	improve
office	standard	center	improved
orange	stated	changed	industry
order	station	charged	instead
outfit	staying	cheer	jar
painting	steam	chicken	joined
pair	step	Christmas	learning
papa	stove	cleaner	liberty
per	stranger	cleaning	lumber
picture	strongest	cooking	making
pin	stuff	cord	match
pink	suffering	cottage	mate
plan	sun	crib	meeting
pleasure	teacher	cure	message
plenty	teeth	damp	mighty
poorly	tenth	dare	million
pound	than	dealing	mind
prevent	thereafter	deeply	named
price	thick	degree	nerve
protest	those	desire	next
reached	thought	die	nicely
reaches	thread	directed	none
reader	thus	doctor	nor
recall	to-night	done	normal
recover	total	dressed	nose
remark	township	ease	obtain
renew	trace	English	October
reported	twelve	enter	open
require	uncle	even	ordering
required	understanding	extra	overlooked
respond	understood	fact	packed
result	union	farther	partly
retain	velvet	fence	patch
return	vote	figure	payable
rice	wagon	find	pencil
road	waiting	fire	person
rose	wanted	follow	phone
rye	watching	forgot	potatoes
sack	water	former	present
secure	welcome	fort	primary
seem	wet	fruit	produce
selling	wheel	fun	product

profit	trying	depending	needed
provided	understand	deportment	noise
pump	upon	does	ocean
pure	voice	draft	offering
quart	waited	dread	oh
queen	whereby	earning	otherwise
question	wished	enjoying	own
raise	wishes	enough	package
record	won	except	pain
reduce	worth	excuse	passing
regulation	young	extend	pillow
relationship	zero	extent	pocket
render		factory	postal
rented	STEP 5—94%	failed	post card
renter		famous	power
requested	95%	favor	presume
returned	acting	feeling	prize
roof	action	file	program
rubber	address	fix	progress
rug	afraid	floor	public
scale	agree	form	pull
scare	anyhow	formed	raw
second	apart	frame	reaching
seemed	arrived	fresh	reason
seen	August	friendly	regret
Sept.	badly	fur	reply
shame	base	furnish	rushed
shape	beat	gown	score
shot	beg	grandma	scout
sight	begun	grew	season
simple	bid	guess	shop
sir	birth	hoped	skate
smaller	blame	hotel	sorry
snap	blow	insist	speaker
somewhat	bottom	joke	square
somewhere	bridge	killed	suit
speak	broke	kitchen	team
special	brown	knowing	tent
spoke	build	known	thankful
spread	can't	language	thirty
stair	cause	laugh	through
starting	central	length	Thursday
steady	chapter	letting	tie
stock	charming	likewise	trade
street	chop	located	treatment
study	cities	lone	turned
supper	clothing	lonesome	wake
sure	colt	loud	warm
taking	content	lovely	weary
talked	contract	lowest	weather
temple	cooler	lump	wedding
there	court	maple	whole
these	damage	mind	witch
third	dated	might	withdraw
tile	debate	month	worm
tip	debating	monthly	woven
treated	decline		wrong

94%	knew	advantage	moment
among	lame	already	movement
answered	leaving	ample	narrow
attend	lighting	animal	natural
beef	listen	ans.	nearer
began	lodge	answering	neat
Bible	loving	aside	newspaper
bite	lucky	asked	odd
board	ma	ate	officer
boiler	married	bugs	pavement
broken	meantime	cane	plum
builder	member	cheap	printer
bulk	mistake	checked	promotion
cat	mister	collect	quickly
chart	northern	copy	quoted
climate	notify	correct	rack
comfort	notion	cough	raining
cool	opened	daily	recess
county	ordered	dealer	refuse
dead	pearl	district	requesting
dearly	pending	division	retail
deliver	played	domestic	returning
devoted	powder	dreadful	rod
duty	presented	dresser	rough
eighteen	prevented	during	running
elect	production	duties	sale
elected	ranch	education	served
else	recovered	eleventh	serving
everything	refused	expressed	settlement
expert	relation	factor	sewing
explain	remind	fancy	shock
feature	repair	female	sorrow
fifteen	repeat	field	stamped
fifth	rip	film	stories
figured	shortly	folk	strongly
fixed	sixth	football	student
flavor	sock	force	tend
flour	studies	front	term
forest	supply	geography	their
froze	taxes	having	throughout
frozen	tried	herewith	tiny
gallon	trouble	homestead	to
general	turn	human	track
gray	uniform	hurry	training
greatest	valley	idea	turkey
ha	visited	include	unpaid
harvest	visiting	indeed	useful
heap	watched	informed	winner
hole	weak	invite	wonder
I'd	worry	justify	wonderful
illness	youth	kisses	worthy
including		leaves	92%
increase	STEP 6—92%	lecture	absent
instruct	93%	loyal	acre
itself	account	measure	afterward
join	actor	model	aid
joyful	addition	moderate	arrive

artist	kept	attending	refreshment
attraction	kindest	beaten	regular
barley	lamb	beyond	reliable
barrel	latest	boarding	reserve
beet	least	breakfast	says
bit	liberal	built	shipping
blessed	lonely	candle	silence
blew	lung	caught	simply
bluff	manage	circulation	since
both	merry	circus	skirt
broad	middle	color	speed
burden	modern	common	taste
carried	moving	concluded	taught
cast	need	condition	tax
changing	needle	containing	trained
cheaper	offered	conversation	until
checking	organ	creamery	upper
cigar	ours	dairy	wage
cleaned	painter	detail	written
clerk	parties	difference	
closer	peace	discovered	STEP 7—88%
coach	perfect	encourage	90%
coasting	permit	enjoyed	according
companion	pools	entering	anyway
complete	private	expected	appeal
connecting	prompt	expression	ashamed
corner	properly	feeder	attention
corrected	prospect	final	aware
covered	proved	followed	booth
credit	rained	foolish	butcher
dancing	remember	forth	buying
death	riding	greeting	chill
delivered	right	habit	connect
directly	sash	household	connected
enjoy	saving	ideal	connection
eve	seal	inform	couple
everybody	setting	intended	crazy
everyone	shed	ivory	delayed
feeding	shoulder	junk	delightful
finest	steel	leaf	dirty
finger	suitable	main	eager
flesh	surface	miss	effort
foundation	though	nevertheless	enclosed
frankly	throat	owe	entertainment
freeze	title	pastor	expecting
French	topic	posted	fairly
furnace	wait	pride	fortune
gained	wear	problem	friendship
goldfish	worse	promise	fuel
greatly	writer	protected	fund
headache		proud	furnished
health	91%	prove	gaining
honor	advising	proven	gas
husband	against	pupil	gentleman
important	although	quotation	German
information	amounting	rabbit	gotten
inviting	appear	reduced	
	apply		

grind	author	thereof	mass
grit	automobile	too	national
grocery	beauty	tread	nurse
healthy	careful	trial	outlined
I'll	closely	wasn't	parlor
included	contained	won't	perhaps
investment	current	worst	plow
later	curtain	88%	possible
level	dangerous	acted	prepare
liked	debt	admit	president
liquid	direction	advanced	promised
met	entered	adventure	rainy
minute	failure	allow	register
neglect	fair	attended	renewed
neglected	fashion	Ave.	reputation
noticed	fee	avenue	scrap
obtained	fierce	bigger	seldom
owner	forgotten	break	server
penny	further	buggy	service
period	germ	cement	skating
phoned	globe	certain	slightly
piano	grammar	chairman	soldier
porch	graze	cherries	success
prepaid	guide	chief	therefore
providing	handling	comply	tired
putting	helped	composition	treasurer
raising	hereafter	consider	87%
rapid	hesitate	considered	agreeable
rapidly	honestly	correctly	agreed
refund	inclosed	cousin	ambition
remained	instruction	crew	appointed
resulting	isn't	didn't	approved
saddle	jury	difficult	assist
section	loss	dwelling	average
secured	method	entire	await
sis	mountain	exact	awaiting
slept	Mrs.	explained	baking
slipper	nap	fault	balance
smooth	neighbor	following	blackberries
social	opening	forty	blooming
statement	owned	forwarding	buyer
suppose	pa	fullest	cabinet
Thanksgiving	per cent	furnishing	calm
vision	picnic	future	carefully
weigh	plain	gasoline	cheerful
weight	popular	gland	collection
whom	property	happened	coming
women	recite	hare	commerce
wondering	regard	helpful	consideration
89%	ribbon	herein	considering
absolute	settled	holiday	construction
across	sore	housekeeping	convention
addresses	strike	increasing	correction
adjust	struggle	inspector	depot
advised	style	instructed	desired
arrange	sweater	lie	dice
assure	text	limb	director



due	clever	copies	colored
enclosing	closing	drama	comfortable
entirely	commence	excess	confined
entitle	courage	favorable	constantly
excited	described	federal	continued
expired	deserve	forced	cute
firm	different	forward	decided
fitted	dose	forwarded	discourage
fitting	earliest	fourteen	either
funeral	effect	growth	enrolled
gentlemen	fare	inclose	error
ghost	fourth	increased	extended
impossible	garage	indicate	avored
improving	gee	intend	federation
inquire	graduation	international	group
ironing	grip	knot	hospital
limit	guest	lately	importance
machinery	handled	limited	inasmuch
manufacture	handsome	linen	inclosing
needing	headquarter	minister	insert
numerous	humor	musical	I've
parent	hurried	namely	misunderstanding
pertaining	intention	obliged	past
placing	interest	o'clock	patent
position	issue	ought	picce
prayer	latter	ourselves	process
prepared	manner	produced	purpose
preparing	oversight	publication	queer
priced	parcel	quality	received
promptly	performed	represented	reception
proof	personal	rifle	relative
publisher	plainly	roll	representation
quiet	post office	route	republican
quite	proceed	select	resident
reasonable	published	seller	saver
Saturday	recently	signed	scarce
sew	represent	sleet	society
slide	selected	strawberries	system
spare	selection	suggest	tanning
strength	situation	themselves	telegram
struck	traveling	together	telephone
submit	whose	to-morrow	that's
throw	yourselves	towel	tract
touch	85%	volume	waste
transportation	ache	woman	Wednesday
truly	advertised	wouldn't	workmanship
view	appeared	84%	83%
waist	avoid	adjusted	absence
weekly	believe	advertise	capable
weighed	howl	advice	circular
yoke	breaking	advise	citizen
	capital	afloat	confident
	celebrate	ankle	creep
	chose	applied	crippled
	complaint	approval	doubtless
	consist	carrier	earnest
	constant	cashier	enclose

STEP 8—84%

86%

banquet  
bog

enroll  
exam.  
exciting  
factories  
graduate  
graduating  
gratitude  
instance  
insurance  
interesting  
knowledge  
laid  
legal  
manager  
manufacturing  
misses  
owing  
particular  
preacher  
receive  
ruin  
satisfied  
search  
shipper  
shopping  
shone  
stating  
supplied  
supposed  
tight  
violin

82%

accept  
accomplish  
addressed  
adopted  
appointment  
arranged  
arriving  
assured  
assuring  
attached  
attempt  
awful  
biggest  
cellar  
collecting  
concern  
design  
easily  
employed  
entertain  
ford  
generous  
hoping  
improvement  
instant

internal  
material  
mention  
neither  
oblige  
perfectly  
purchase  
quarter  
recent  
remembered  
remit  
replying  
resigned  
salary  
securing  
subscriber  
surprise  
worried  
writing

## STEP 9—79%

81%

assembly  
bracelet  
cartoon  
companies  
conference  
delivery  
develop  
disposed  
doubt  
entertaining  
fern  
fever  
freight  
handkerchief  
happiness  
invitation  
item  
loan  
loose  
mentioned  
nephew  
operated  
passed  
pattern  
prevail  
realize  
regardless  
satisfactory  
serious  
sitting  
slight  
spirit  
supplies  
support

theater  
tickled  
toward  
usual  
vacant  
we'll  
Xmas.

80%

actual  
adjustment  
appreciate  
article  
attractive  
booster  
canned  
captain  
course  
credited  
desiring  
exercise  
extensive  
fabric  
figuring  
forenoon  
hello  
inclined  
interested  
jobber  
justified  
library  
likely  
manual  
notified  
positive  
quit  
raiser  
remembering  
rendered  
source  
superior  
universal  
wearing  
you'll

79%

agriculture  
attach  
attain  
authorized  
automatic  
calves  
choose  
collar  
concerning  
convince  
coy  
decrease  
dependent

deposit  
destroyed  
explaining  
filing  
hadn't  
haven't  
hereby  
independent  
institution  
introduction  
lovingly  
management  
moral  
neighborhood  
occupied  
opinion  
patient  
regarding  
requirement  
rural  
stayed  
studied  
voting

78%

ability  
agency  
argument  
certainly  
college  
conclusion  
considerable  
convinced  
couldn't  
daddy  
difficulty  
entry  
established  
exception  
favorite  
finally  
hasn't  
heir  
involved  
lbs.  
nineteen  
opera  
ordinary  
procured  
sanitary  
stationary  
straight  
tattooing  
Tues.  
utmost  
we've  
whether

77%	proposition	suggested	respectfully
accident	refer	territory	salesman
activity	regularly	valuable	71%
affair	satisfaction	vary	assurance
arrival	transfer	wholesale	barely
channel	university	worrying	billed
concert	75%	75%	braid
contemplated	allowed	choosing	business
crowd	anxious	commercial	confirming
deliveries	assistant	coupon	control
democratic	blizzard	cushion	democrat
deserved	character	description	genuine
destination	Christian	enrollment	identify
durable	confer	fashionable	personality
establish	confidence	government	principal
evidence	crowded	hers	reliability
exactly	discontinued	impression	reservation
examined	duplicate	instrument	satisfy
February	expense	issued	senior
bustling	explanation	Latin	strictly
junior	favorably	meant	usually
liable	haste	ninth	weren't
lining	influence	orchestra	70%
maybe	installed	previous	advancement
nervous	introduced	profitable	alley
policy	journal	prosperous	altogether
Prof.	largely	realizing	carrying
purchased	organized	receiving	contemplating
quote	registered	responsible	contrary
slippery	relieve	type	disgusted
supervision	series	vicinity	electrical
using	signature	72%	entitled
you'd	sire	accordance	evidently
	strict	admission	furniture
	surprised	alfalfa	institute
STEP 10—73%	transit	announce	literature
76%	74%	applicant	practice
application	advertising	bargain	premium
brief	cedar	based	sincere
Bro.	combination	believing	splendid
choice	development	disagreeable	
compelled	Dr.	disposal	STEP 11—66%
customer	employer	elsewhere	69%
decide	engineer	examination	accordingly
formerly	envelope	examine	benefit
hailed	expensive	extreme	candidate
investigate	frequently	fortunate	choir
investigation	gravy	glorious	circumstances
literary	honorable	illustration	considerably
madam	illustrating	imagine	doesn't
maintain	its	majority	equally
mamma	merchandise	medicine	equipment
mere	pardon	mental	gradually
obligation	possibly	profession	invoice
operating	remedy	qualities	missed
operation	shipped	really	politics
pleasant	submitted	reference	

presence	attitude	60%	meter
similar	bass	absolutely	opportunity
stomach	capacity	allotment	probably
terrible	coarse	assigned	55%
various	corporation	assume	acceptance
68%	electricity	attorney	annual
accomplished	executed	beginning	catalogue
available	foreign	conservatory	installment
estimated	generally	council	official
label	inquiry	decision	practically
niece	practicing	demonstration	
separate	registration	excellent	STEP 13—50%
successful	renewal	exhibit	54%
67%	stopped	inferior	athletics
advisable	63%	organization	completely
appreciated	administration	planned	hastily
constitution	assistance	response	necessity
engineering	auditor	safely	occasion
etc.	awfully	supervisor	personally
exceptional	basis	59%	preliminary
instructor	civics	acquire	quantities
patron	confirm	appreciation	quantity
prosperity	congratulate	co-operation	Sabbath
substitute	examiner	crochet	straightened
welfare	librarian	excitement	53%
66%	readily	existing	advertisement
assignment	timothy	inducement	agricultural
clothe	STEP 12—58%	planning	bulletin
demonstrated	62%	science	community
distribution	acknowledge	secretary	extension
employee	appearance	talent	geometry
magazine	aren't	58%	merit
mechanical	interfere	announcement	principle
practical	naturally	consequently	52%
preparation	nickel	consultation	acquainted
subscription	particularly	good-bye	alumni
succeed	possession	individual	ambitious
sympathy	semester	maturity	associate
variety	urge	relieved	client
65%	61%	sense	compliment
amendment	actually	57%	cordially
congratulation	additional	ballot	correspond
data	calendar	carnival	referred
exclusively	certicate	cordial	remembrance
experience	commission	disappoint	superintendent
illustrated	co-operative	grateful	51%
lose	customary	legislation	arrangement
prefer	exhausted	remittance	campaign
resource	heretofore	specification	disappointment
studying	inquiries	56%	enthusiastic
succeeded	losing	administrator	financial
surplus	ninety	appreciating	girlie
unusual	organize	association	permanent
64%	original	co-operating	50%
associated		crocheting	bureau
assortment		disease	communication

regretting	44%	executive	38%	accompanying	29%
sincerely		assessment		guarantee	
solicit		extremely			
thorough		leisure			28%
49%		possess	STEP 15—34%	convenience	
enormous		thoroughly	37%	peculiarities	
license	43%				27%
materially		analysis		chautauqua	
necessary		equipped		essential	
physical		fundamental		guaranteed	
responsibility		mortgage	36%	X-ray	
48%		fraternally			25%
all right		unusually	35%	recommendation	
ere		efficient		schedule	
exceptionally		physician	34%		24%
familiar		affectionately	33%	appendicitis	
inconvenience	42%			conveniently	
merely		committee		pneumonia	
possibility		correspondence			STEP 17—21%
professional		occasionally			23%
receipt		referring		anniversary	
47%		tuberculosis		grippe	
auntie		32%		rheumatism	
authority		accommodate			21%
definite		anticipating		Hallowe'en	
soliciting		apparatus			20%
46%		characteristic		definitely	
attendance	40%	unnecessary		ingredients	
consequence		31%			19%
disappointed		candidacy		phosphorus	
immediately		confirmation			STEP 18—16%
		inst.			18%
STEP 14—42%	39%		STEP 16—27%	affidavit	
45%			30%		16%
immediate			efficiency	zephyr	
rec'd			lieutenant		
specially					
sufficient					
surgery					



**SECTION XV**

**THE IOWA SPELLING SCALE**

**GRADE VIII**

## GRADE VIII

STEP 1—100%			
able	body	dinner	herself
about	book	done	high
above	bottle	dream	hill
add	bought	dust	him
added	box	each	himself
adding	brick	earth	his
advance	bring	east	hog
afternoon	brother	easy	holding
again	bunch	eat	horse
age	but	edge	hot
ago	butter	eighty	house
all	by	end	hunt
alone	call	enjoy	hunting
along	called	eye	ill
am	calling	face	important
an	came	fail	in
and	camp	fall	inches
another	can	farm	ink
anything	car	farming	inside
apple	card	feet	into
are	care	few	is
army	cash	filled	it
around	cause	fine	job
art	cent	fire	July
as	child	fishng	June
ask	children	food	just
at	city	foot	keeping
away	class	form	kid
baby	clean	found	kind
back	clear	free	kinder
backing	close	from	lake
bad	coach	gained	land
ball	coal	get	large
band	cold	girl	last
bank	come	give	late
banking	contest	given	law
bat	corn	go	lay
bay	cost	going	leader
be	country	gone	left
because	cow	good	leg
been	cross	got	less
behind	cup	grade	let
being	dad	grain	letter
bell	danger	greater	life
belong	dare	half	like
below	darling	happy	list
best	date	has	little
better	day	hat	live
big	December	have	lived
bill	decline	hay	liver
bird	deed	he	lives
blank	degree	head	load
board	did	help	long
	died	her	look
			looking



love	partly	silk	thousand
low	payment	sit	three
mad	pen	six	time
mail	people	size	train
mailing	person	slow	treat
make	pie	small	tree
making	place	smart	trust
man	plate	snow	trusting
many	play	so	trying
market	pleased	soft	twenty
mate	poor	sold	under
may	power	somewhat	understand
me	prevented	sound	understanding
mean	put	spelling	up
membership	question	spend	use
message	rail	spent	value
milk	raised	spoke	waiting
mill	range	sport	walk
mine	read	stamp	wall
money	reader	start	wanted
more	ready	started	was
most	real	starting	wash
mother	reason	state	watch
move	red	stated	water
must	rent	station	way
my	report	stay	we
named	request	stick	well
nature	rest	still	were
nearly	return	stock	what
net	rich	stone	whatever
next	ride	stood	wheat
nice	rock	store	wheel
night	room	storm	when
nine	round	stranger	where
nobody	rug	study	while
noon	rule	subject	who
not	run	such	wife
note	rush	summer	will
nothing	said	sunshine	willing
object	sample	take	wind
office	Sat.	talk	wire
oil	saw	teach	wise
old	say	teaching	with
oldest	school	tell	without
on	see	telling	wood
once	seeing	ten	work
one	send	tent	worked
open	sending	test	worker
order	set	thank	working
out	setting	thanking	world
over	sheep	that	would
overcoat	ship	the	woven
own	shoe	them	wrote
pack	short	thing	year
page	should	think	yellow
painted	show	thinking	yes
paper	sick	this	yet

you	carry	evening	hate
yourself	case	ever	heard
zone	catch	every	heat
	cattle	exchange	heavy
STEP 2—99%	chain	expected	helping
	chair	express	here
abstract	charge	fact	history
account	charged	factory	hit
act	chart	failed	hold
action	cheer	far	holder
address	church	farmer	home
after	cities	fast	hotel
agent	classes	faster	hour
ahead	cleaned	father	how
air	clothing	favor	however
also	club	fear	hundred
amount	coat	feed	hurry
answer	coffee	fell	ice
any	coin	fellow	if
anybody	company	fight	inch
anyhow	conduct	figure	instead
April	contract	file	instruction
arm	cook	fill	invite
asking	correct	filling	invited
ate	could	finding	ivory
attend	count	finish	Jan.
Aug.	court	fish	January
aunt	cover	fit	joy
awhile	covering	five	judge
bake	cream	flesh	keep
banker	cut	for	kill
barn	cutting	force	kindly
bottle	dandy	forgive	king
bee	dark	formed	kiss
before	dead	fort	know
between	deal	Friday	lace
black	dealing	friend	ladies
block	dear	front	lady
blood	debate	gain	landing
blue	deep	gate	larger
boat	delay	gave	learn
booklet	depending	gift	learning
boss	discount	glad	leaving
bother	display	glass	light
boxes	district	glove	located
boy	dog	goat	longer
brain	doing	gold	longest
branches	down	goose	looked
bright	dress	green	lost
bringing	drew	grew	lot
brush	drill	ground	loved
build	drop	hair	lovely
built	drug	handed	lower
bushel	drum	handy	luck
cannot	duty	happen	lump
cap	early	hard	lunch
car	earning	harder	made

mailed	playing	settlement	they
maker	please	seven	thin
mark	pleasure	seventy	third
married	pocket	several	those
master	point	shade	thought
match	present	shall	thus
matter	press	shame	ticket
Monday	print	share	tip
mostly	printed	she	to-day
mountain	printer	shut	told
mouth	produce	sickness	took
Mr.	product	silver	top
much	protest	simple	town
mud	provided	sin	township
music	pull	sir	toy
myself	pure	sister	trade
name	quart	sixty	trip
nation	quick	skate	trunk
near	railroad	sleep	try
never	rain	slip	two
new	raise	smaller	unable
nicely	rate	snowing	union
normal	raw	soil	unless
north	reach	some	us
nose	reading	something	used
notice	reduced	sometime	valued
Nov.	reduction	son	wagon
number	remain	song	waited
nut	removed	soon	wake
oats	rented	sooner	walked
Oct.	renting	space	want
of	repeat	spell	wanting
off	reply	spot	war
only	result	spring	warm
outside	rice	square	washing
oven	ring	stage	watching
overlooked	river	stamped	went
packing	rolling	stand	western
paint	roof	standing	white
painting	rubber	staying	why
papa	running	stove	wild
park	rust	strongest	win
part	sack	stunt	window
party	safe	sugar	winter
pass	same	Sunday	wish
patch	sand	sweet	wished
pay	sat	swell	wishes
peace	score	table	wishing
peach	seat	taken	within
personal	second	talking	word
phone	secure	tank	worth
pick	seed	teacher	wrong
picking	self	teeth	yard
picture	sell	tenth	yesterday
pig	selling	than	your
pine	sent	then	zero
placed			

STEP 3—98%			
acre	chicken	feeling	lift
acted	chum	felt	liked
acting	cleaner	fifty	listed
active	cleaning	first	living
actor	clearly	fixed	loaded
against	clerk	flat	local
aid	closed	flower	locate
alive	cloth	forget	location
among	coast	former	loud
answered	colder	four	lung
answering	colt	frame	machine
anyone	condition	French	maid
anywhere	construction	frost	maple
aside	contain	fruit	March
asleep	continue	fur	marking
auto	cooking	furnish	May
aware	cool	gather	meal
backed	cord	germ	meantime
basket	corrected	grant	measure
bean	cottage	granted	meat
bed	cotton	grass	meet
began	counting	greatest	method
begun	crop	growing	middle
behalf	daily	hand	might
belonging	damage	hang	mighty
belt	damp	hardly	mind
bench	dance	hardware	Miss
beside	daughter	health	mistake
Bible	dealer	heap	month
birthday	debt	hear	monthly
blame	Dec.	heating	morning
born	delighted	held	moved
branch	depend	herewith	neck
bridge	deportment	highest	news
broke	die	hole	noise
broken	direct	honest	none
brought	do	idea	noted
building	don't	improved	November
burn	door	income	now
buy	draft	inform	offering
buying	dresser	iron	older
cake	drive	island	orange
calf	egg	jar	other
careful	eight	jump	our
carpet	eighteen	jury	ours
cat	else	kindness	package
caused	English	kitten	parties
center	entire	lamp	paying
chance	even	lame	per
change	everything	largest	pillow
changed	example	laugh	pink
chapter	excuse	learned	plenty
charming	expecting	leather	popular
cheap	extend	leave	post
check	family	leaves	posted
	fat	lesson	pound
	feeding	liberty	pretty

prevented	spending	STEP 4—96%	duties
price	steam	97%	ease
printing	step	advanced	education
prize	stop	adventure	elected
production	street	advise	election
promise	strongly	afterward	eleventh
proper	student	agree	enough
property	sum	aim	entered
proud	sun	almost	eve
provide	supper	already	everyone
queen	taxes	ample	excited
race	tested	animal	expert
reached	thereafter	ans.	extent
reaches	thick	appointed	extra
reaching	thirty	base	factor
recall	thread	beat	failure
record	tile	beauty	Feb.
recover	till	beg	female
refuse	tire	begin	fence
regular	ton	bet	film
regulation	topic	blessed	find
relation	trained	blew	finished
remark	travel	blow	folder
remove	treated	bluff	follow
renter	treatment	boiler	forest
repair	true	both	fortune
require	turkey	brand	freeze
reserve	twelve	bugs	fully
respect	twice	builder	fun
respond	understood	button	funny
retail	upon	buyer	furnished
road	valley	calm	gaining
rushed	very	carried	garden
sad	visit	cast	gentleman
sale	voter	cheaper	glasses
saying	walking	checked	glee
season	washed	chill	gotten
section	watched	chop	gown
seen	weak	clay	grand
Sept.	week	clock	grandfather
September	welcome	composition	great
seventh	west	consider	greatly
shop	wet	conversation	hall
shot	whenever	crib	handle
showed	whereby	cure	having
side	which	dated	hearing
sight	wide	deeply	improve
sign	witch	deliver	included
simply	wonder	depot	increase
singing	worm	devoted	inquire
snap	worse	direction	insist
snowed	write	dodge	inspect
somewhere	yearly	dose	instruct
sort	young	dressed	interest
south		drilling	introduced
speed		during	issue
			itself

I've	requested	beaten	general
joined	required	became	gladly
kitchen	resident	become	gland
knowing	retain	beyond	goldfish
labor	returned	bid	greeting
leaf	right	bigger	harvest
least	rod	birth	helped
lecture	saved	brown	hereafter
letting	scale	buggy	homesick
lone	settle	burden	homestead
lonesome	shed	busy	hoped
lumber	sheet	cared	hurt
meeting	shipment	carrier	ideal
member	shortly	caught	illness
mend	single	cigar	indeed
miss	sink	circus	industry
moment	sixth	closer	information
movement	slipper	collect	inviting
need	sorry	collection	joke
needed	speak	color	kept
needle	special	comfort	killed
nerve	spread	companion	known
obtain	stair	connect	language
October	stories	constant	later
opened	stuff	copy	length
or	suffering	correctly	level
otherwise	suppose	couple	likewise
outfit	tie	cousin	limited
packed	tired	covered	lowest
pain	to	dearest	lucky
passing	total	death	ma
payable	trace	demand	manage
pencil	trouble	desire	mass
per cent	turn	directly	minister
perfect	turned	dispose	minute
pin	united	does	moderate
plain	velvet	dollar	narrow
plan	visiting	dread	nearer
planted	whom	enclose	neat
poorly	withdraw	enjoying	neglected
post card	wonderful	entering	nor
potatoes	wool	everybody	nurse
prefer	youth	expressed	odd
problem		extended	officer
progress	96%	federation	ordering
prospect	according	field	ourselves
pump	addition	fifth	owe
putting	addresses	finest	owner
rack	advantage	flavor	pair
rainy	always	forgot	particular
ranch	appeal	foundation	pavement
rank	appear	frankly	period
recess	appeared	froze	phoned
reduce	apply	fund	porch
remind	attended	gallon	postage
render	average	game	prepare
reputation	barrel		president
	bear		

pride	STEP 5—94%	farther	owned
primary	95%	feature	painter
prompt		feeder	pearl
properly	absence	feel	pending
public	accept	fifteen	performed
rained	adjust	final	perhaps
raining	advised	fix	piano
rapid	afraid	flour	played
refused	allow	football	possible
relative	amounting	fourteen	postal
remained	anyway	friendly	presented
remember	approved	frozen	produced
reported	arrived	furnishing	program
resulting	asked	future	promptly
rip	August	garage	protected
rose	awaiting	gas	proven
seal	barley	geography	providing
seem	beef	getting	published
serve	beet	globe	pupil
served	breakfast	graduate	quickly
settled	broad	grandma	raising
shape	cane	grit	recovered
shock	cement	guess	regret
signed	central	ha	relationship
since	checking	habit	rendered
sock	Christmas	honor	renew
soldier	circular	hurried	returning
someone	climate	husband	ribbon
sorrow	coasting	I'll	sash
speaker	commerce	include	saving
steel	common	including	says
strike	complete	intended	scout
suit	concluded	interested	search
system	connected	investment	service
talked	connecting	join	serving
team	contained	joyful	shipping
territory	content	kisses	skirt
text	corner	knew	sleet
thankful	crazy	knot	soap
there	credit	limb	steady
these	delivered	lodge	supplies
Thursday	deserve	loyal	supply
tiny	desired	manner	support
to-night	dirty	mister	supposed
towel	doctor	moral	sure
training	domestic	Mrs.	sweater
trial	dwelling	musical	taking
Tuesday	elect	national	temple
until	entertain	neighbor	their
upper	establish	newspaper	themselves
vision	exact	northern	though
weary	except	noticed	throat
wedding	explain	notion	through
weekly	factories	obtained	throughout
won	fair	ocean	title
worst	famous	offered	track
yourselves	fancy	oh	tract

transportation	foolish	spirit	finger
tread	fuel	standard	fitted
uniform	garment	statement	folk
visited	gentlemen	strength	funeral
voice	gray	studies	furnace
waist	grind	substitute	gasoline
woman	grove	success	group
written	guide	supplied	hence
	hen	tanning	holiday
94%	higher	tax	honestly
absolute	household	term	humor
advising	human	thereof	improving
afloat	importance	vacation	institute
although	increasing	wait	international
artist	informed	wear	introduction
ashamed	inspector	winner	ironing
assembly	intend	worthy	justified
assist	interesting	Xmas.	justify
Ave.	junk		kindest
avenue	liberal	STEP 6—92%	latest
badly	lie		liable
balance	lighting	93%	limit
bite	likely	adjustment	loving
bottom	listen	anxious	main
bulk	lovely	apart	manager
candle	maintain	application	modern
can't	model	arrive	nap
carefully	moving	assured	neglect
cashier	natural	attached	nevertheless
certain	no	attain	notify
chairman	outlined	attempt	opening
changing	permit	attending	organ
cheerful	pertaining	avoid	pa
citizen	pole	boarding	penny
complaint	powder	booth	plainly
connection	preacher	clever	pools
consideration	priced	cloudy	prepaid
convention	process	concert	private
cough	promotion	confined	proceed
county	prove	consist	proved
curtain	publisher	containing	quiet
dancing	quality	correction	quotation
dangerous	quite	decrease	recite
debating	rapidly	design	refund
democratic	reception	didn't	regardless
dice	refreshment	division	reliable
difference	register	dreadful	requesting
difficult	replying	enclosed	scrap
directed	rough	encourage	seemed
due	row	entirely	server
extensive	rye	exam.	sire
fairly	satisfaction	expired	situation
fare	scarce	fashion	skating
fault	shopping	fashionable	slide
favorable	silence	favored	smooth
fee	sore	federal	struck
figured	spare	fever	struggle



style	eager	salary	machinery
subscriber	employed	secured	majority
suitable	enjoyed	seldom	material
surface	enter	seller	mention
taste	entitle	serious	million
taught	evidence	social	needing
telephone	excess	submit	neither
tend	expensive	Thanksgiving	notified
therefore	explaining	tickled	oversight
throw	followed	traveling	parcel
tight	forced	wage	perfectly
touch	forgotten	wearing	position
tried	forth	Wednesday	purchase
uncle	fullest	workmanship	purpose
unpaid	government		responsible
useful	grammar	91%	sanitary
wasn't	headache	adopted	sew
weather	healthy	affair	sis
weight	hello	agriculture	stayed
whole	hereby	ambition	to-morrow
wholesale	housekeeping	applied	valuable
whose	I'd	attraction	we'll
women	inclined	baking	
wondering	increased	believe	STEP 7—88%
worry	indicate	biggest	90%
you'll	instance	bit	
92%	instant	blackberries	
ability	instructed	bowl	actual
absent	instructor	cabinet	addressed
accomplish	invitation	certainly	admit
adjusted	lbs.	cherries	arrange
advancement	linen	choice	blizzard
appointment	mental	circulation	blooming
article	merry	concern	college
attention	met	creamery	combination
author	obligation	creep	comfortable
await	parent	crew	conclusion
break	parlor	different	confidence
breaking	pastor	drama	considered
butcher	piece	effort	copies
capable	placing	enroll	courage
captain	policy	explained	coy
chief	prepared	firm	cute
closely	presume	ford	decided
closing	prevail	German	discontinued
considerable	previous	glorious	doubt
considering	promised	graduation	doubtless
constitution	quarter	grocery	either
cooler	quit	handled	employer
crippled	rabbit	handling	established
delayed	recent	herein	estimated
delightful	regard	improvement	examined
detail	represent	inclose	expense
director	roll	internal	expression
discover	route	invoice	favorite
disposed	ruin	legal	fierce
dozen	saddle	loan	following
			forward

frequently	agreed	weigh	respectfully
fresh	argument	won't	rifle
gee	arrival	writing	Saturday
grown	arriving	88%	sewing
guest	banquet	ache	sitting
helpful	billed	ankle	society
I'm	cedar	approval	source
impression	choose	assure	studied
inclosed	circumstances	assuring	submitted
insurance	collar	attorney	surplus
involved	colored	automatic	view
issued	continued	automobile	waste
item	dairy	braid	weighed
largely	deliveries	Bro.	87%
lately	delivery	cartoon	accordingly
liquid	discourage	celebrate	announce
loss	entertaining	coming	arranged
madam	error	commercial	attach
manual	exactly	comply	booster
nephew	fourth	contrary	calves
nineteen	freight	credited	canned
oblige	generous	current	cellar
o'clock	gradually	decide	character
ordered	graze	deposit	collecting
post office	grip	deserved	commence
preparing	happened	disposal	conference
proposition	hesitate	durable	convince
publication	independent	earnest	course
purchased	insert	engineer	data
realize	installed	exciting	destination
recently	investigate	exercise	earliest
remembered	laid	fern	enclosing
remembering	mentioned	fortunate	fitting
renewed	numerous	forty	generally
representation	opera	forwarding	gratitude
represented	ordinary	friendship	hadn't
riding	past	further	happiness
rural	pattern	ghost	haste
securing	personality	growth	hospital
select	picnic	hare	illustrated
selection	plum	headquarter	institution
series	possibly	identify	intention
shipper	practice	impossible	investigation
slept	profitable	inasmuch	junior
slight	queer	latter	knowledge
slightly	reasonable	manufacture	misses
splendid	satisfactory	misunderstanding	namely
suggest	saver	occupied	ought
treasurer	selected	plow	owing
university	shown	prayer	realizing
vacant	stating	procured	regarding
violin	strawberries	profit	registered
89%	suggested	proof	remedy
accident	supervision	qualities	remit
across	that's	quoted	republican
activity	type	received	salesman
agreeable	volume	reference	sincere

slippery  
superior  
telegram  
toward  
universal  
urge  
weren't  
we've  
worried  
yoke  
you'd

STEP 8—84%

86%  
accordance  
ambitious  
bracelet  
carrying  
companies  
customer  
democrat  
description  
development  
easily  
effect  
entry  
equally  
examine  
exception  
finally  
forwarded  
handkerchief  
honorable  
inclosing  
lovingly  
medicine  
missed  
obliged  
Prof.  
really  
receive  
reservation  
resigned  
straight  
strict  
using  
usual  
voting  
wouldn't

85%  
auditor  
brief  
chose  
concerning  
contemplating  
cordial

crowded  
examination  
fabric  
furniture  
hustling  
influence  
journal  
library  
loose  
neighborhood  
politics  
positive  
premium  
quote  
senior  
shipped  
shoulder  
signature  
stationary  
strictly  
surprise  
terrible  
truly  
utmost  
whether

84%

advice  
allowed  
attractive  
authorized  
bog  
capital  
confident  
couldn't  
described  
destroyed  
etc.  
experience  
foreign  
heir  
illustrating  
instrument  
Latin  
literary  
meant  
operation  
opinion  
pardon  
patent  
patient  
possession  
prosperity  
satisfy  
stomach  
tattooing  
transit

83%  
acknowledge  
administration  
advertise  
association  
awful  
business  
channel  
compelled  
contemplated  
crocheting  
desiring  
enrolled  
entertainment  
envelope  
favorably  
filing  
gravy  
management  
organize  
organized  
profession  
raiser  
refer  
satisfied  
secretary  
stopped  
studying  
theater  
together  
too  
vicinity  
writer

82%

accomplished  
additional  
agency  
altogether  
annual  
assortment  
attitude  
available  
beginning  
crowd  
develop  
difficulty  
disagreeable  
electrical  
elsewhere  
engineering  
entitled  
evidently  
existing  
figuring  
handsome  
hoping

illustration  
manufacturing  
official  
operated  
operating  
subscription  
transfer  
various

STEP 9—79%

81%  
acceptance  
acquire  
choosing  
constantly  
convinced  
daddy  
dependent  
duplicate  
examiner  
February  
graduating  
individual  
its  
lining  
lose  
merchandise  
particularly  
science  
timothy

80%

admission  
associated  
assume  
assurance  
commission  
confer  
congratulation  
decision  
enormous  
enrollment  
equipment  
exceptional  
exhibit  
explanation  
extreme  
forenoon  
genuine  
hasn't  
hailed  
isn't  
jobber  
label  
nervous  
patron

practical	mamma	excellent	exhibition
regularly	ninety	exclusively	hastily
responsibility	organization	merit	original
succeed	prosperous	necessary	preliminary
supervisor	successful	quantity	specification
79%	sympathy	reliability	
appreciate		response	STEP 11—66%
assistance	STEP 10—73%	separate	69%
ballot	76%	73%	
bass	applicant	aren't	acquainted
candidate	electricity	choir	correspondent
certificate	excitement	commissioner	disappointed
Christian	familiar	committee	epidemic
civics	heretofore	co-operative	inferior
distribution	immediate	extension	license
executed	merely	inquiry	sincerely
hers	orchestra	meter	specially
inducement	physical	ninth	68%
legislation	planned	possibility	athletics
magazine	preparation	practicing	doesn't
maturity	presence	renewal	exceptionally
maybe	receiving	safety	mechanical
principal	relieved	straightened	occasion
readily	requirement	succeeded	passed
registration	similar	72%	probably
unusual	variety	agricultural	67%
78%	vary	alley	
advertised	75%	appearance	allotment
appreciated	advisable	capacity	announcement
assigned	algebra	community	authority
assistant	associate	confirming	bonus
bargain	awfully	corporation	definite
believing	carnival	notary	efficient
clothe	co-operation	usually	essential
confirm	disease	71%	exhausted
control	Dr.	administrator	librarian
cushion	employee	amendment	nickel
formerly	mere	attendance	personally
interfere	naturally	coarse	planning
pleasant	necessity	compliment	professional
relieve	sense	cordially	regretting
resource	Tues.	customary	remittance
surprised	welfare	installment	sufficient
talent	74%	niece	66%
worrying	advertising	soliciting	
77%	alfalfa	surgery	absolutely
actually	appreciating	70%	consultation
consequently	basis	advertisement	ere
correspond	benefit	appreciation	good-bye
coupon	campaign	arrangement	quantities
crochet	catalogue	assignment	receipt
demonstrated	congratulate	based	unnecessary
demonstration	consequence	bureau	65%
disgusted	conservatory	considerably	
haven't	especially	convenience	barely
imagine			communication
			completely
			executive

extremely  
financial  
inquiries  
literature  
representative

64%

calendar  
leisure  
opportunity  
solicit

63%

annually  
practically  
semester  
superintendent

STEP 12—58%

62%

client  
convenient  
council  
immense  
permanent  
principle

61%

accredited  
characteristic  
courteous  
losing  
scientific

60%

analysis  
correspondence  
mortgage  
Sabbath

59%  
enthusiastic  
lieutenant  
unusually

58%

all right  
alumni  
anticipate  
assessment  
candidacy  
continuous  
fundamental  
geometry  
girlie  
physician  
possess  
thorough

57%

thoroughly  
56%  
accompanying  
acquaintance  
auntie  
originally  
recommendation

55%

anticipating  
circuit  
disappoint  
equipped  
immediately

STEP 13—50%

54%

confirmation  
materially  
recommend  
thesis

53%  
pneumonia  
referred

52%

satisfactorily

51%

bulletin  
disappointment  
grateful  
referring

50%

apparatus  
co-operating  
inconvenience  
judgment  
rec'd

49%

efficiency  
inst.  
remembrance

48%

grippe  
prior

47%

affectionately

46%

politician  
tuberculosis

STEP 14—42%

45%

affidavit

44%

ingredients  
privilege

43%  
guarantee  
rheumatism

42%

appendicitis  
Hallowe'en

41%

conveniently  
enthusiasm  
guaranteed  
occasionally

39%

accommodate  
peculiarities

38%

schedule

STEP 15—34%

37%

definitely  
fraternally

35%

anniversary

34%

zephyr

33%

chautauqua

X-ray

31%

canvass

STEP 16—27%

28%

phosphorus



## **APPENDIX**

## EXHIBIT A

Set I, list 1 illustrates the form in which words were sent to the various schools.

## Iowa Spelling List—1-1

1 and	26 recently	51 fraternally	76 attractive
2 me	27 pupil	52 broke	77 management
3 some	28 correct	53 cake	78 toy
4 think	29 walk	54 blood	79 singing
5 say	30 Dr.	55 renewal	80 forenoon
6 each	31 happen	56 confident	81 durable
7 way	32 top	57 colored	82 per cent
8 great	33 window	58 roll	83 kitten
9 put	34 shipping	59 clock	84 plow
10 picture	35 wife	60 forced	85 faster
11 market	36 standard	61 outfit	86 breaking
12 folk	37 printed	62 thorough	87 brand
13 real	38 fifty	63 waste	88 soap
14 sorry	39 cream	64 grown	89 calendar
15 leave	40 recommend	65 stick	90 anniversary
16 aunt	41 prior	66 deep	91 extreme
17 credit	42 crowd	67 organized	92 possess
18 supply	43 forwarded	68 exceptional	93 kinder
19 street	44 cool	69 weigh	94 slept
20 profit	45 rush	70 applicant	95 dice
21 begin	46 represented	71 porch	96 federal
22 net	47 publication	72 staying	97 insert
23 May	48 blow	73 instructed	98 likewise
24 brought	49 fixed	74 slightly	99 identify
25 Oct.	50 newspaper	75 tie	100 daddy



**EXHIBIT B**

Instructions sent with spelling material to all cooperating teachers.

**INSTRUCTIONS TO TEACHERS**

This work is a part of a state wide effort to grade a list of most commonly used words. The success of the work will depend upon the accuracy with which you and all other teachers follow these directions.

Please have your pupils spell one list each day; 100 words if you are teaching grades V to VIII and 50 words if you are teaching grades II, III or IV. Pronounce each word distinctly and make sure that each child understands the word. Give a short illustrative sentence in all cases where different words have the same or similar pronunciation. The words are to be given without previous study or drill of any kind. Give plenty of time but no assistance.

Have the work done with pencil, on paper of uniform size, writing two columns on a page but do not write on both sides of the paper. The child should write his name, sex, age, and grade and the name of his school and city at the top of each sheet. Pronounce the words in order numbered and have the pupils number the words as they write them. This is very important.

Impress upon the children that in case of an error, they are to draw a line through the word and write it correctly above or beside the misspelled word. Words in which one letter has been written over another will be counted wrong, as it is almost impossible to know which was the child's final decision on the spelling.

It is recognized that in the lower grades many of these words are quite unfamiliar to the children and that a large proportion of the pupils will not be able to spell most of the words in the list. The only way, however, to find out what words the children can spell and what words they cannot spell is to give them the opportunity to attempt to spell all the words. Keep them just as happy in the effort as possible by telling them that other boys and girls of the same grade are trying to spell the same words in other schools in Iowa. If you are teaching in grade II or III, it will probably be better to pronounce 25 words in the forenoon and 25 in the afternoon than to give all 50 at once.

If your pupils are in grades VI, VII, or VIII, will you please assist in the scoring by having a few of the stronger pupils detailed each day to check the papers of all members of the class. Caution them that they are not to mark the word in any way but only make a cross through the number of the word which is misspelled. Four children can correct the papers for a room in twenty to thirty minutes and you will doubtless have no difficulty in finding some of the pupils who will very gladly do this.

The papers are to be collected each day and tied together. At the end of the ten days, the ten bunches of papers which represent the ten days' spelling of the pupils in your room, are to be sent tied in a single package to your superintendent. He will then forward these papers with all others from your city to the Extension Division. The Extension Division will score the papers from the lower grades and tabulate the spellings from all contributing schools and return the results to your Superintendent.

To the extent that these instructions are carefully followed and your co-operation secured will the results be of value to all the schools of the state. Please give the work your best effort but do not attempt to improve the spelling of the children of your room on these words by assisting them in their spelling in any way.

**EXHIBIT C****Cities Co-operating in Spelling Study**

Adair	Denison	Lake View	Oskaloosa
Algona	Dunlap	Lansing	Ottumwa
Ames	Eddyville	La Porte City	Pella
Belle Plaine	Eldon	Le Mars	Pocahontas
Belmond	Fairfield	Lineville	Postville
Bloomfield	Glenwood	Manilla	Red Oak
Bonaparte	Grinnell	Manson	Reinbeck
Boone	Griswold	Marengo	Remsen
Britt	Guttenburg	Marshalltown	Rockford
Buffalo Center	Hampton	Montezuma	Rockwell City
Burlington	Hartley	Monticello	Rolfe
Carroll	Hawarden	Moulton	Sheldon
Casey	Hopkinton	Muscatine	Sidney
Centerville	Humboldt	Nashua	Sigourney
Chariton	Humeston	Nevada	Sioux Center
Charles City	Ida Grove	New Hampton	Spirit Lake
Cherokee	Independence	New London	State Center
Clarinda	Inwood	New Sharon	Stuart
Clarion	Iowa City	Newton	Toledo
Clinton	Jewell	Northwood	Waterloo, E.
Corning	Keokuk	Oakland	Waukon
Corydon	Keosauqua	Oelwein	What Cheer
Council Bluffs	Kingsley	Orange City	Williamsburg
Cresco	Knoxville	Osage	Woodbine
Davenport	Lake Mills		







